

09/22/97 09:22:01

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 gcccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat 180  
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taccca							2520

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 <213> Homo sapiens  
  
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 <223> n equals a,t,g, or c

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 aacatgtaat gaatgtagta atagtaatta ttttattttc ttttgattca gttgggacta 180  
 tgttcagctg taacagaata cccaaaataa ctgttttaaa caaattaaag tttwgttgtg 240  
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 tgtgctctct cactttaatc atagctccca ctagatgcac ccactacttc tgctgatact 480  
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 gtcattgtgt caattaatat ccaagtgtcc aattactgag aaaaaaagaa actagcacct 600  
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 acccggttta ttcttctctt tactttatct ctgtattgct ctctctcact ctactccagc 1020  
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 <212> DNA  
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 ggctggagag atcatatattt tggattataa ctggagtctc tccatccttc acattgttga 180  
 tgtcctctgt agcaaaccgg aaaagtcagt gacagaagat gccgctagcg gtttgagcca 240  
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 catttggtga gcacctatta tgtgtcaagc tctgtgctag cctctggaaa acctgccctc 420  
 atgtagctca ctgtggagta ggagaaacaa tgactacact atgataagca cgggttgcca 480  
 gggctctcaca gacgagtggc ccctcatcca gaccgatgag gtcaaagaag gcatccaggc 540  
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<210> 14  
 <211> 843

<212> DNA  
<213> Homo sapiens

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<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (89)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (525)  
<223> n equals a,t,g, or c

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 agggaaattcg gcacggagtg ggaatgttgt ttgtatgata ctatttccac aawatgcatt 180  
 gagacttggg ktgtggccta ggacatgggc aattcttctt aaatattccg tgaatttctt 240  
 tagtgcatat tctccgatgg gggctgtggg gacagagttc taaatatgcc cattagatta 300  
 aatctcttca ttctgttget cacatcttct atatccttat taatctgtca atctcttcaa 360  
 gagaggtggt attaaaatct ctactgtat gtgtcacttt gcccttaaaa ttctgatgat 420  
 ttgctttata aatgggtata accattttcc aggaagaaca ttaaagaact ttccattggc 480  
 attatccagt ttccctcaaa atactggttt tttttatatt ggctnctaag cagctatgaa 540  
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 cctgtgcttg aaggagcctt aaagctcatc tagtccagcc agtatttgtt catccaaatt 720  
 ctgccagaaa atctctattg tcaagatatt ctttaccatc tttgggacat tctcattatt 780  
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 aaa 843

<210> 15  
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<212> DNA  
<213> Homo sapiens

<400> 15  
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 acaatgttgt tttagtccaa gaagataatt gccagagaaa gaatacagtg caggaaagaa 180  
 gargctggag ccagtgggtg agarggattg agargacaga cattgtggga atgaaatcat 240  
 gaataatcgt gtttttgaat tgtccaaaaa cttctacaaa ccatgaaatg ttggagttaa 300  
 aatctaattg ttgaaaaatt cccacattc cttgtatccc ttaggttgag cataattcca 360

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<212> DNA
<213> Homo sapiens
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<222> (478)
<223> n equals a,t,g, or c
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<221> SITE
<222> (661)
<223> n equals a,t,g, or c
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<213> Homo sapiens
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<213> Homo sapiens
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[illegible]

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<211> 959
<212> DNA
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ccctccctga	tattgtattg	aaaatattat	gcacactggt	catgcttcta	ctaataaata	1380
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 <212> DNA  
 <213> Homo sapiens

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 <222> (1470)  
 <223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens
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<210> 23



<211> 1047  
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 <223> n equals a,t,g, or c

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 ccattcttcc atcttggcct cctaaagtgc tgggactgca ggcagagcc accatgccca 180  
 gccaaagattc ttattgatta ccatgttgct tcaagaagcc aagccagttt ccaatattcc 240  
 ccatttgctg gagtcttggg actttgggta gaagcaactg gtaaattgtt aattggaaca 300  
 nttgggtggg tagataacca cgtatggcca aacctagagc atctaggctc acaattacta 360  
 tcctgacttg ataacaagtg ttctgatatt aacctgaaaa tgggaataat gccaaatctg 420  
 tgtaacttaa catctatata cacagtgggg agaactgaag ttattaaacc tgggaatctct 480  
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&lt;210&gt; 28

&lt;211&gt; 3989

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 28

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<212> DNA

<213> Homo sapiens

<220>

<221> SITE

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3690)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3716)

<223> n equals a,t,g, or c

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ggtgtggtga	ctcac					3735

<210> 30  
 <211> 1667  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1628)  
 <223> n equals a,t,g, or c

<400> 30	
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agacttaaaag	120
gcagagtcgc	180
tgctgtttatt	240
caaaggcagc	300
taacctgtct	360
tggcaacatc	420
cagtgcacaac	480
tgctccaggt	540
cgcccaagct	600
gcacaagtgtg	660
caaagggcac	720
actgtgcac	780
tacctctcta	840
taccccat	900
gttccaacct	960
catcagcaac	1020
tagatctggg	1080
ataactaacta	1140
tactgcattg	1200
gaaggaaaga	1260
atactcagta	1320
aatgtaaaat	1380
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ctctcctacc	1500
ctttagaacc	1560
attagtgtct	1620
aaaaaaanwa	1667

<210> 31  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1385)

09933767 "099201"

<223> n equals a,t,g, or c

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cccaggctag	agtgcatggc	acgactcttag	ctcactgcaa	ccctccacct	ccaagtctaa	240
gcgattcttc	tgccctcagcc	tccctgagcag	ctgggatcac	agacatgcgc	taccatgcgcc	300
agctaatttt	ttgtattttt	tgtktgtttg	tttttgtttk	taagtagaga	cgggcttttca	360
ccacgttggs	caggcaggtc	tcgaaactcct	gamctcaggt	gatccacca	catctgcgtt	420
ccaattctctt	tctcaacata	atgatatgccg	taattaatat	tttccagtac	atttttatgc	480
ctttacacac	gagagtggtg	gacagacaca	aaccagatc	tgtctgactc	caaagccgt	540
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cccaacaaag	acttaacttc	ccaggatgcc	agaaggacaa	agcgggattg	cttttaagra	660
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attaaaaact	gaaaaggcca	gcatagggaa	ggagggtcct	cggtggtcct	tttcagggaa	780
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gagcaatagg	cagcccttca	ctgctgctgg	aytcattcct	gccaytatta	caggtgacag	960
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<213> Homo sapiens

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c



<220>  
 <221> SITE  
 <222> (3184)  
 <223> n equals a,t,g, or c

<400> 32  
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 cgagcaggtg gttgaagtct gtacaaatac cagcagtcct catgctggcc tctttcctaa 180  
 agataactcg acactggctg tggacatcta caaagggggt gttgtgctgg gatgttactt 240  
 tgggcctgct gcactctaca tttgggcagt ggggacccctg gctgcaggac agagctccac 300  
 catgacagga acctattctg gccagtttgt catggaggga ttcttgaacc taaagtgggtc 360  
 acgctttgcc cgagtgggtc tgactcgtct tattgccatc atccccactc tgcttgtttgc 420  
 tgtcttccaa gatgtagagc atctaacagg gatgaatgac ttttgaatg ttctacagag 480  
 cttacagctt cctttgtctc tcatacccat cctcacattt acgagcttgc ggccagtaat 540  
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 gttccatcat atgtactttg tagtggttta tgtccgggac ytaaggcatg tgsccattata 660  
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 aatgtttgat tgcactgggc atgtccttcc tggactgtgg gcatacggta agcatctcta 780  
 aaggcctgct gacagaagaa gccaccctg gctacgttaa ataactctgg attagtctgt 840  
 cttctgcagg tagccatcag agccagtggt tttctatggt ttactgtgtg aacatagcca 900  
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 gtttcatgtg tatttgaag atggaattat ttttccctc ctgacctaac cttagaactg 1020  
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 aactacagaa tgagtatgca agttttattt atcaaaatgt aatggatttt taaaggctga 1260  
 gaaattttcc ttatacctac cttttcagtt attttaatta taccaaaatta tcaactagaa 1320  
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 ctttgaactt atttccactt taatttctca gtggaagtta agaggggtga gaaaacaaag 1440  
 aaggggaaaa actgacaact aacaaaacca gcaccacatc gctaggtggt gcttactaat 1500  
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 acttggtttc taattaaaaa aaaatttctt tttccaaaaa aaaaaaaaaa aaaaaaaatt 3180  
 nctnng 3186

<210> 33  
 <211> 971  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (957)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (964)  
 <223> n equals a,t,g, or c

<400> 33  
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 agtgttctgc tggagccgat gccaaaaacc atgcatttct tattcagatt cattgttttc 120  
 ttttatctgt ggggcctttt tactgctcag agacaaaaga aagaggagag caccgaagaa 180  
 gtgaaaatag aagttttgca tcgtccagaa aactgctcta agacaagcaa gaaggagagc 240  
 ctactaaatg cccattatga cggctacctg gctaaagacg gctcgaaatt ctactgcagc 300  
 cggacacaaa atgaaggcca ccccaaattg tttgttcttg gtgttgggca agtcataaaa 360  
 ggcctagaca ttgctatgac agatatgtgc cctggagaaa agcgaaaagt agttataccc 420  
 ccttcatttg catacggaaa ggaaggctat gcagaaggca agattccacc ggatgctaca 480  
 ttgatttttg agattgaact ttatgctgtg accaaaggac cacggagcat tgagacattt 540  
 aaacaaatag acatggacaa tgacaggcag ctctctaaag ccgagataaa cctctacttg 600  
 caaagggaat ttgaaaaaga tgagaagcca cgtgacaagt catatcagga tgcagtttta 660  
 gaagatattt ttaagaagaa tgaccatgat ggtgatggct tcatttctcc caaggaatac 720  
 aatgtatacc aacacgatga actatagcat atttgtattt ctactttttt tttttagcta 780  
 tttactgtac tttatgtata aaacaaagtc acttttctcc aagttgtatt tgctattttt 840  
 cccctatgag aagatatattt gatctcccca atacattgat tttgggataa taaatgtgag 900  
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<210> 34  
 <211> 1792  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1767)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1768)  
 <223> n equals a,t,g, or c

<400> 34  
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0033757 000201

ctcttcagat tctccttatt ttagtcttctt ttacatttta tgaagtagaa agcattgttt 180  
 tgtaaaactgt ttgaaaata aatagcctag tctcttatcc tcttttagcgt ggattaaagg 240  
 tgaagttctg caaatgggag agtggtcaca gtagatagct cagattgatt gaacacattt 300  
 gaggaagaga ctctgcatg agataccagc atttttacia atacttttta tgtacattct 360  
 ttattttgtc attttgtcaa cctctcccc aagcacatct tctttccttt tactatgtct 420  
 atgtagggaa aaacaaaaca aaaaattgca cttacgttac actcccaaaa tgtgggtaat 480  
 ccgtgtcttt caaaaaacat ttctgttttt tgttttgttt tggtcagtcct attgcataag 540  
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 ttgcctgtaa tatttaagct tctttactga tgtgtgtgct ggtagggaaca tataattttt 1560  
 gtacattata tttactgaga tgttgccctt tttattttac aaatactttg gaattccaat 1620  
 gtgttttttg cttccgtgag gattaatttg gaaaggtttt taatgacatt ccactgattt 1680  
 cagattttgc ttgagattga cttcaataaa ttgtcctgta tgttccaaaa aaaaattaaa 1740  
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<210> 35  
 <211> 896  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (8)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (870)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (877)  
 <223> n equals a,t,g, or c

<400> 35  
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 gccagcytca cytgccacyt tytgcccty tcgggatgac ttcgcagaca gagytyttcg 120

0933767.000001

ctgcctgtgg	tggccaytct	ttgcttttgg	ttytcttggc	ccttggcctc	cctttttgtc	180
cccgggagc	cttgtgtgac	ctgccctttt	ccctcccttc	ctttccagga	caagcacgcc	240
gaggaggtgc	ggaaaaacaa	ggagctgaag	gaagaggcct	ccaggtaaag	cctagaggcc	300
aaagaacttt	ccaggtcagc	cggacagctc	cagcagctcc	acgttccagg	cagcctcgmc	360
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tctgcttttg	gtgtttgtac	atgtaagaa	ttgaccagt	aagccatcct	atttgtttcc	480
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&lt;210&gt; 36

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 36

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cgccacggac	ctytytgggg	agtggccgga	aagctcccg	gcctytggcc	tgcagggcag	780
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ttttgtagtt	tttatkcctt	tggctattat	gaaagaggtt	agtgtgttcc	ctgcaataaa	900
cttgttcctg	ag					912

&lt;210&gt; 37

&lt;211&gt; 1382

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (787)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 37

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tgaatagaaa	attatagatt	ttgatattga	aggaaatgaa	gcgaagcyta	aatgaaaatt	180
cagctcgaag	tacagcaggc	tgttttgcctg	ttccgttgtt	caatcagaaa	aagaggaaaca	240
gacagccatt	aactttctaat	ccacttaaag	atgattcagg	tatcagtacc	ccttctgaca	300
attatgattt	tcctcctcta	cctacagatt	gggcctggga	agctgtgaat	ccagagttkg	360
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gaagtcaaga	ttctgtcttt	aactctattc	aatcaaatac	tggaagaagc	caggggtggt	480

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<210> 38
<211> 872
<212> DNA
<213> Homo sapiens
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<210> 39
<211> 812
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (806)  
<223> n equals a,t,g, or c
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<220>  
<221> SITE

&lt;222&gt; (810)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 39

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agcatatcct	ttttgtccat	attcctttcc	tgctgccctc	gtgtgtacca	ttattactca	300
gttgatgatt	gagctcgttc	cacttaaagt	cattcataga	tacttttgcg	tcgtgttkga	360
atatttattg	aattttctatt	ctgtgtttta	cttaattact	ttattatgga	acctttacac	420
aggctctggtg	tacttgttct	ttgaaaagtc	ttatgttgac	caccatcact	gagcatatag	480
ctttttcctt	atttccttgg	gataattacc	cgaagtggaa	ataccgaatc	aaactttctgt	540
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atttttcaaa	atctgggtat	ttgtcctatt	ttgtctctctg	tatgcagaat	tcagcggggg	660
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taactactac	aatcatgct	gagaccgagc	tatttttctg	gcttagargc	tttgcagcct	780
tgagtaagtt	tcgncatctg	gaaacnttgn	aa			812

&lt;210&gt; 40

&lt;211&gt; 1515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 40

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&lt;210&gt; 43

&lt;211&gt; 1821

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1801)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 43

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 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
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 aaaa 1024

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 <211> 983  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (976)  
 <223> n equals a,t,g, or c

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 gccctggga acaagccgga gctgtatgag gaagtgaagt tgtacaagaa cgcccgagg 180  
 agggagaagt acgacaacat ggcagagctg tttgcgggtg tgaagacaat gcaagccctg 240  
 gagaaggcct acatcaagga ctgtgtctcc cccagcgagt acactgcagc ctgctcccg 300  
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 gaccggccca tcaccatcaa ggacgacaag ggcaacctca accgctgcat cgcagacgtg 480  
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 kgsggccggg ccccantccc ccc 983

<210> 46

0933767 0933767

<211> 2421  
 <212> DNA  
 <213> Homo sapiens

<400> 46

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 caggagaatg ggcagagggg agaagaggaa gaagagaagg aacctgaagc agaacctcct 660  
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 <211> 840  
 <212> DNA  
 <213> Homo sapiens

<400> 47

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&lt;210&gt; 48

&lt;211&gt; 2432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (593)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2049)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 48

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&lt;210&gt; 49

&lt;211&gt; 1742

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (570)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 49

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1742

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 <212> DNA  
 <213> Homo sapiens

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 <222> (1486)  
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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 52

&lt;211&gt; 1856

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

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&lt;210&gt; 53

&lt;211&gt; 1558

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



[illegible]



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&lt;210&gt; 56

&lt;211&gt; 1603

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (328)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (336)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (341)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (788)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 56

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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<220>

<221> SITE

<222> (6)

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<220>

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<220>

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<222> (770)

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<220>

<221> SITE

<222> (784)

<223> n equals a,t,g, or c

<400> 58

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<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1024)

<223> n equals a,t,g, or c

09933767-099201

[illegible]

478

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<223> n equals a,t,q, or c
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<222> (548)  
<223> n equals a,t,g, or c
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<221> SITE
<222> (560)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (562)
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (584)  
<223> n equals a,t,g, or c
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<400>	61						
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ttcgcgcgct	tgcaagtcca	cactagtggg	tcccaaagaa	ttcggcacga	gtcataatga		120
gctactaggt	aagccttctg	ggactttcag	atattttggg	gaagattgat	ttttgttctt		180
acatgctgtg	gacctttggc	catcaaatgg	tatgggggaag	ctcatccgtc	tgctctgtat		240
ggtcatgtca	gtcaggcgct	tttttaagt	ttactgggtg	ctcagatctg	gtccagatgc		300
tgctggggagc	cgtggtggta	tggaggagga	gtgtctccaga	ggactctgct	gtgtggcagg		360
ccagcataaa	caagccaagg	ggaaaaggca	ggcatggaat	aaagggggag	aataccagtg		420
tgtgacttac	tgctgactgt	gtggattagc	ctatcagcag	taatcaagca	gggcggaggg		480
cattatcttt	gagccagaag	agtgagcact	ggsccgaggg	tggagcatca	agaggggggtg		540
taggaccnca	aggctttctn	cnggggagac	aacgtcaata	agcngtcagt	agtcaccgac		600
agttttggga	agcaaggg						618

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<210> 62
<211> 751
<212> DNA
<213> Homo sapiens
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<220>

<221> SITE  
 <222> (158)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (159)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (202)  
 <223> n equals a,t,g, or c

<400> 62  
 tcgacccacg cgtccgagga gctggacttc tgagacagcc attctccttg catagcactg 60  
 tctgctgcta cagctcatag aagtcaacaa ttttcttcaa cactggtagg cagcctctaa 120  
 atggccctga tcacctcac ctccctgccat tcacaccnnt gtaaaattcc acccctggac 180  
 ctagtgcact acttetaaca angagaatac agcaaaagta acatcgcttc tgagggtagg 240  
 ctacaaggag actacgatgc ctgccttggg cacccttctc ctgctcttcc cattgctccc 300  
 tctgatggaa gccagttgcc atgtgatgag gtgccttatg gagaggccca cgtgacaagg 360  
 tattgtaaaa agcctctgac caatagccat ctagaaacgg aggccagtc cagcagcctc 420  
 tgagatgaat cctgcccaacc tgagcttggga gacagattct ctccctatcc tgccttggga 480  
 tgatcacagc caccaccaac accttcaact cctggtgaga ggccaagcca gtgaacccaa 540  
 ggtaaactgg acagaatcct gaccacacaga aactgagata atgtttgtta ttttaagctg 600  
 ctcagtttgt tacagagcaa tagataacta actcaaacac cataaaattc taatatttta 660  
 ttctatcaca caaaccaggt aataccaagt aaatgccatt actatacaca tatttttgta 720  
 acacaattac atgtgatttt ttaagaaggc t 751

<210> 63  
 <211> 780  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (4)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (738)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (776)

00933767.000001

<223> n equals a,t,g, or c

<400> 63

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ggcctgcatg	ggtgacttca	cattttccta	cctctccttc	taatctcttc	tagagcacct	120
gctatcccca	acttctagac	ctgctccaaa	ctagtacta	ggatagaatt	tgatccccta	180
actcactgtc	tgcggtgctc	attgctgcta	acagcattgc	ctgtgctctc	ctctcagggg	240
cagcatgcta	acggggcgac	gtcctaattc	aactgggaga	agcctcagtg	gtggaattcc	300
aggcactgtg	actgtcaagc	tggcaagggc	caggattggg	ggaatggagc	tggggcttag	360
ctgggaggtg	gtctgaagca	gacaggggaat	gggagaggag	gatgggaagt	agacagtggc	420
tggatggct	ctgaggtccc	ctggggcctg	ctcaagctcc	tcctgctcct	tgctgttttc	480
tgatgatttg	ggggccttgg	agtccttttg	tcctcatctg	agactgaaat	gtggggatcc	540
aggatggcct	tccttctctt	taccttctct	ccctcagcct	gcaacctcta	tcctggaacc	600
tgtcctccct	ttctccccaa	ctatgcatct	gttgctctgt	cctctgcaaa	ggccagccag	660
cttgggagca	gcagagaaat	aaacagcatt	tctgatgcc	aaaaaaaaa	aaaaaaaaacc	720
gcggccgaaa	gcttattncc	ctttaagtaa	ggggttaatt	tttagcttgg	gcactnnggc	780

<210> 64

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (566)

<223> n equals a,t,g, or c

<400> 64

ttccgaatta	atcgactcac	tataggaawt	gccgtcgcca	tgacccgcgg	taaccagcgt	60
gagctcgccc	gccagaagaa	tatgaaaaag	cagagcgact	cggttaaggg	aaagcgccga	120
gatgacgggc	tttctgctgc	cgcccgcaag	cagagggact	cggagatcat	gcagcagaag	180
cagaaaaagg	caaacgagaa	gaaggaggaa	cccaagtagc	tttgtggctt	cgtgtccaac	240
cctcttgccc	ttcgctgtg	tgcctggagc	cagtcaccac	acgctcgctg	ttcctcctgt	300
agtgtcac	ggtcccagca	ccgatggcat	tccttttgcc	ctgagtctgc	agcgggtccc	360
ttttgtgctt	ccttcccctc	aggtagcctc	tctcccctg	ggccactccc	gggggtgagg	420
gggttacccc	ttcccagtg	tttttattec	tgtggggctc	accccaaagt	attaaaagta	480
gctttgtaat	tccaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaanncggt	ggggggcccc	cccccccc		588

<210> 65

<211> 945

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> SITE

00933767 "002201"

<400>	66								
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acaagagcat	cttggtagta	ggacaattga	agagttagat	gccttatitgg	aggaaactgga			120	
acgtccacc	cctcaggaca	gtgatgaata	ttccaaccca	gctcctcttc	ccctggatca			180	
gcattccaga	aaggagacta	accttgatga	gacttcggag	atcctttcta	ttcaggataa			240	
cacaagtcce	ttgcgcgcgc	antcgtgtat	actaccaata	tccaggagct	caatgtctac			300	
agtgaagccc	aagagccaaa	ggaattcacca	ccaccttcta	aaacgtcgac	agctgtctag			360	
tgtgatgac	tcatggctca	cttgactgag	atgcaggcca	aggttgcagt	gagagcagat			420	
gctggcaaga	agcaettacc	agacaagcag	gatcaccaag	cctccctgga	ctcaatgctt			480	
gggggtctsg	agcaggaatt	gcaggacctt	ggcatlgcca	cagtgcgccaa	ggggccattgt			540	
gcaticctgcc	agaaaaccat	tgtctgggaag	gtgatccatg	ctctagggca	atcatggcat			600	
cctgagcatt	ttgtctgtac	tcatgtcaaa	gaagagattg	gtccagttcc	cttctttgag			660	
cggagtggct	tggntactct	ccccaacgac	taccaccaac	ttttttctcc	acgctgtgct			720	
tactgcgctg	ctcccatctc	ggataaagatg	ctgacagcaa	tgaaccagac	ctggcaccia			780	
gagcaacttct	tctgtctctca	ctgcggagag	gtgtttgggtg	cagaaggctt	tctatgagaag			840	
qacaaqaadc	catattqcqq	aaagqatttc	ttaqccatqt	tctcacccaa	gtatgtgtggc			900	



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<210> 67
<211> 1152
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (668)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (745)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1015)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1088)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1110)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1113)
<223> n equals a,t,g, or c

<400> 67
ctcaagggatg taaaggctct gcagatttcg ggaggcctgt ctcccagcac ctgatgggac
actttttgcc ccaactgtaaa ttctgggtgt atcctccact gtatgctgtc accccaaggg
caagcactgc atctgcttag tgaaggattt attgttcgga agatacattt tccccttkag

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cagagagtgg	cgtatcctgg	cagtcttcgg	tgagccagtt	gtaccaggat	tatgaaatgc	240
agatgtttac	tgtgtcattg	ttgctgtcat	tgctactgag	gagtactgac	cagaatcatc	300
tgcaactytt	agttggcaga	gaggaccact	atggcgggta	gctcttttct	ttcctgccat	360
tgtggggatg	attccaggcc	aaagatgatg	garaagtatg	gaaatcatct	gaaagggtga	420
agcttggcac	gtgaagccat	tcatgacttt	gtaaggcagt	tttgcgtgaag	gccagttctg	480
ccctgggagg	gacggagggtg	aatcctcctg	agtacctgtg	gttttcttac	ttcctgctga	540
atttacctaa	gtgcctgttg	tttgcctgct	gtggaggcct	tctgggtattt	catttcagggt	600
gcagatgcct	tcaactttccc	accraaaaaa	ccccmaccaa	acctaagacc	ttactgcaac	660
taagtytncc	aagtactttt	taacccaatg	ggatgaacag	cctgtggtct	gtcagatca	720
ccctgagtgc	gtgtgagaag	gcmtnggctt	tgccaggaaa	tccagggaagg	cagggccggg	780
ctgtgttgga	agctggctta	gctggtgggg	cagccttatt	tcaattaaaa	gggcattgac	840
tgggagcagc	agtcctggag	tttgttgcat	ttcctattgc	cctcaaaatg	agaaaccagg	900
aaaatagcag	attggagcct	tcgagaaggc	agtaaatggc	tgtttttatt	gacaaaagga	960
aaacatttta	ctgccatctc	actgatggca	tctcactgac	ttaaaatgaa	ggcangttgt	1020
agtaaaaaaa	aaagtctaca	tttttccacc	gccacgttct	tatatcctgt	ttgtcagcca	1080
ctgctcanaa	gggcatgttg	tcttgcggan	tanaggcgct	ctccttcctt	cgttttccct	1140
ataggttggg	tg					1152

<210> 68  
 <211> 2483  
 <212> DNA  
 <213> Homo sapiens

<400> 68						
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cgccgccatg	ggctcctcgc	aaagcgctga	gatcccgggc	gggggcaccg	agggctacca	120
cgttctgcgg	gtacaagaaa	attccccagg	acacagagct	ggtttgagag	ctttctttga	180
ttttattggt	tctattaatg	gttcaagatt	aaataaagac	aatgacactc	ttaaggatct	240
gctgaaasca	aacgttgaaa	agcctgtaaa	gatgcttatc	tatagcagca	aaacattgga	300
actgcgagag	acctcagtea	caccaagtaa	cctgtggggc	ggccagggct	tattgggagt	360
gagcattcgt	ttctgcagct	ttgatggggc	aaatgaaaat	gtttggcatg	tgctggagggt	420
ggaatcaaat	tctctgcag	cactggcagg	tcttagacca	cacagtgatt	atataattgg	480
agcagataca	gtcatgaatg	agtctgaaga	tctattcagc	cttatcgaaa	cacatgaagc	540
aaaaccattg	aaactgtatg	tgtacaacac	agacactgat	aactgtcgag	aagtgattat	600
tacaccaaat	ttgcatggg	gtggagaagg	cagcctagga	tgtggcattg	gatatggtta	660
tttgcatcga	atccctacac	gcccatttga	ggaaggaaaag	aaaatttctc	ttccaggaca	720
aatggctggg	acacctatta	cacctcttaa	agatgggttt	acagaggtcc	agctgtcctc	780
agttaatccc	cgtctttgt	caccaccagg	aactacagga	attgaacaga	gtctgactgg	840
actttctatt	agctcaactc	caccagctgt	cagtagtgtt	ctcagtacag	gtgtaccaac	900
agtaccgtta	ttgccaccac	aagtaaacca	gtccctcact	tctgtgccac	caatgaatcc	960
agctactaca	ttaccaggtc	tgatgccttt	accagcagga	ctgcccaccc	tccccacct	1020
caacctcaac	ctcccagcac	cacacatcat	gccaggggtt	ggcttaccag	aacttgtaaa	1080
cccaggctctg	ccacctcttc	cttccatgcc	tccccgaaac	ttacctggca	ttgcacctct	1140
ccccctgcca	tccgagttcc	tcccgtcatt	ccccttggtt	ccagagagct	cttctgcagc	1200
aaagtcagga	gagctgctgt	cttccctccc	gccaccagc	aacgcaccct	ctgaccctgc	1260
cacaactact	gcaaaggcag	acgctgcctc	ctcactcact	gtggatgtga	cgccccccac	1320
tgccaaggcc	cccaccaccg	ttgaggacag	agtcggcgac	tccaccccag	tcagcgagaa	1380
gcctgtttct	gcggtgtgtg	atgccaatgc	ttctgagtca	ccttaacttt	gaaccattct	1440
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taaacgagga	cgtgggttgt	atcctgccag	gttgagtggg	gctcacacgc	tagggtgaga	1620
tgtcagaaaag	cgcttgattt	ttaaacaacc	aaaaagaatt	gtaaggggtg	cttgctgcca	1680
ggcttgcact	gccgttctctg	gggggtgtgca	tcttcgggaa	aggtgggtggc	ggggcgctcca	1740
ctagggtttcc	tgtcccctgc	tgctccttcc	gtaagaaaat	gaaatattct	atgcctaata	1800
ctcacacgca	acatttcttg	tactttgtaa	gtcgttttgcg	agaatgcaga	ccacctcact	1860
aaactgtaaa	cggtaaaagag	atttttactt	ttggtctccg	tgagtcgcat	ctctactaag	1920
gtttacacag	gaattccacc	tgaagacttg	tgttaaagtt	ctacagcgcg	cactgttaac	1980

tgaacgtctt	tttcttcagc	ctatacgcg	atccttggtt	tgagctctca	gaatcactca	2040
gacaacattt	tgtaactgct	gctgttgctt	tctacataca	ccttataaag	tgacatttca	2100
aaagaaataa	ggtgccacag	ttttaaacca	gaaggtggca	ctctgtggct	ccttgtagta	2160
ttatagctat	actgggaaag	catagataca	gcaataaagt	acagtaattt	tacttttttt	2220
cttgtgttac	atctaaatta	caacccttaa	ttgccacgtg	tgcacttact	actctccagt	2280
atgtcttatt	actctccagt	atgtcacgca	tctttaactt	ttcacgtcct	atgtttgctt	2340
tctcccattt	ttaagagatg	gtaagttaac	tggaattgat	ttactgaatg	aaattaaatg	2400
cagatatccc	tgtttttgaa	ataaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2460
aaaaaaaaaa	aaaaaaaaaa	aaa				2483

<210> 69  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 69						
gagaaatgga	gctttgttag	ataaaaaattt	tttcaacgca	aacagtcatt	ttccagtga	60
aggagagcgt	atccgccgta	ggatggactt	agatcgtgta	aaagctgagg	ccaccgagga	120
tataacctcc	ggggtccttt	gctcctttt	ccttagactc	cctccaaact	cgtgtatctt	180
tccttcagca	gtactgggct	ccacgcgaac	ctagtccttt	gtctttaccc	tattaccttt	240
cataacatcc	tagttgaaaa	gtarttatcc	aaccgcgttt	gaaaatgaga	acaggttcac	300
agargctagg	ttacttgcca	aggtcgttca	attagtaacc	agtaacgcca	ggactgccag	360
tttcttgctt	ccgaattctc	atggtagctt	tcaccargct	ccccgtcmaa	tgctaacgtc	420
aactactgaa	ctagattagc	aaaaaggtct	tttaacagaa	ttcctgggtt	tcagagagag	480
tttctttcat	gaagcgcccc	atttctacag	aggaaaaata	actccaagca	gccagt	536

<210> 70  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
ggggggcgaa	ttcccctggc	acgaggetga	cgcattgcga	tagctaaccg	caccgggttc	60
agctcgccct	tcttgccag	aggcgccggt	tggactcacg	ggcggggcat	gatgggtggtg	120
ggtaacggca	cctcgctggc	gctctcctcc	ctcctgtccc	tgtgtctctt	tgctgggatg	180
cagatgtaca	gccgtcagct	ggcctccacc	gagtggctca	ccatccaggg	cggcctgctt	240
gggtcgggtc	tcttcgtggt	ctcgtcact	gccttcaata	atctggagaa	tcttgctctt	300
ggcaaggat	tccaagcaaa	gatcttccct	gagattctcc	tgtgcctcct	gttggctctc	360
tttgcatctg	gcctcatcca	ccgagtctgt	gtcaccacct	gcttcatctt	ctccatgggt	420
ggctgtgact	acatcaacaa	gatctcctcc	accctgtacc	aggcagcagc	tccagtcctc	480
acaccagcca	aggctcacagg	caagagcaag	aagagaaact	gacctgaat	gttcaataaa	540
gttgattctt	tgtaaaaaaa	aaaaaaaaaa	aaaa			574

<210> 71  
 <211> 932  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (884)  
 <223> n equals a,t,g, or c

<400> 71						
tcatcatata	caaagttttt	cgtcacactg	cagggttgaa	accagaagtt	agttgctttg	60

agaacataag	gtcttgtgca	agaggagccc	tcgctcttct	gttcctttctc	ggcaccacct	120
ggatcttttg	ggttctccat	gttgtgcacg	catcagtggg	tacagcttac	ctcttcacag	180
tcagcaatgc	tttccagggg	atgttcattt	ttttattcct	gtgtgtttta	tctagaaaga	240
ttcaagaaga	atattacaga	ttgttcaaaa	atgtccctcg	ttgttttgga	tgtttaaggt	300
aaacatagag	aatgggtggat	aattacaact	gcacaaaaat	aaaaattcca	agctgtggat	360
gaccaatgta	taaaaaatgac	tcatacaaat	atccaattat	taactactag	acaaaaagta	420
ttttaaatca	gtttttctgt	ttatgctata	ggaactgtag	ataataaggt	aaaattatgt	480
atcatataga	tatactatgt	ttttctatgt	gaaatagttc	tgtcaaaaat	agtattgcag	540
atatttgga	agtaattggg	ttctcaggag	tgatatcact	gcaccaagg	aaagattttc	600
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actcgtgttg	cctttgaaac	tagtccccta	ccacctcggg	aatgagctcc	attacagaaa	720
gtggaacata	agagaatgaa	ggggcagaat	atcaaacagt	gaaaagggaa	tgataagatg	780
tattttgaat	gaactgtttt	ttctgtgagc	tagctgagaa	attgttgaca	taaaataaag	840
aattgaagaa	acacatttta	ccatttaaaa	aaaaaaaaaa	actngagggg	ggcccggtag	900
ccaaatcgcc	gcatagtgat	cgtaaacat	ct			932

<210> 72  
 <211> 996  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (584)  
 <223> n equals a,t,g, or c

<400> 72						
cgcttggcac	catgaggacg	cctgggcctc	tgctgtgct	gtctgtgctc	ctggcgggag	60
cccccgccgc	gcggccact	cccccgacct	gctactcccg	catgcgggco	ctgagccagg	120
agatcaccgc	cgacttcaac	ctcctgcagg	tctcggagcc	ctcggagcca	tggttgagat	180
acctgcccag	gctgtacctg	gacatacaca	attactgtgt	gctggacaag	ctgcgggact	240
ttgtggcctc	gccccgctgt	tggaaagtgg	cccaggtaga	ttccttgaag	gacaaagcac	300
ggaagctgta	caccatcatg	aactcgttct	gcaggagaga	tttggatttc	ctgttgagatg	360
actgcaatgc	cttggaatac	ccaatcccag	tgactacggg	cctgccagat	cgtcagcgct	420
aagggaaactg	agaccagaga	aagaacccaa	gagaactaaa	gttatgtcag	ctaccagac	480
ttaatgggccc	agagccatga	ccctcacagg	tcttgtgtta	gttgatctg	aaactgttat	540
gtatctctct	accttctgga	aaacagggt	ggtattccta	ccnnggaacc	tcctttgagc	600
atagagtttag	caaccatgct	tctcattccc	ttgactcatg	tcttgccagg	atggttagat	660
acacagcatg	ttgatttggt	cacctaaaaa	gaagaaaagg	actaacaagc	ttcactttta	720
tgaacaacta	ttttgagaac	atgcacaata	gtatgttttt	attactgggt	taatggagta	780
atggtaacttt	tattctttct	tgatagaaac	ctgcttacat	ttaaccaagc	ttctattatg	840
cctttttcta	acacagactt	tcttcactgt	ctttcattta	aaaagaaatt	aatgctctta	900
agatatatat	tttaygtagt	gctgacagga	cccactcttt	cattgaaagg	tgatgaaaat	960
caaataaaga	atctctttcac	atgaraaaaa	aaaaaa			996

<210> 73  
 <211> 785  
 <212> DNA  
 <213> Homo sapiens

<400> 73						
ggcacgaggg	gctttgcgta	cacaatagct	gctaggagta	cccaaagcct	gartacarcc	60
tgctggtgtc	atggccacgt	gtgagcaggc	cagcgtcama	cggtctgctg	tgaccggtcc	120
cgragactga	aatgggcctg	ggtcttctcc	tkgtcctgtg	atwaaagtcc	tctcttgaaa	180
gtggagagca	aaggcacaca	gaggtgcgcg	ctcacaagaa	ttcctcccg	tgactgggta	240
atcaatgtta	ctgctgtttc	ctttgcagga	aagaccacag	caagattctt	tcattcgtct	300

```
<210> 74
<211> 1069
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (92)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (886)
<223> n equals a,t,g, or c
```

[illegible]

```
<210> 75
<211> 831
<212> DNA
<213> Homo sapiens
```

<400> 75

```

ggacattaga tcaactgtgga cctaaaaaca acaacaact ataaggaaaa tggcattaga      60
aatgggtctgg ggatcagttt atcactgcag ttgttacatc accccatggg ctaaaaataga      120
gagcttttagt ctgtctctgt ttcagttcat tttacaggag gtgaacatca cacttcaga      180
aaactctgtc tggatgaaa ggtataaatt tgatattcct gtctttcact tgaatggcca      240
gtttctgatg atgcatcgag taaacacctc aaaacttgaa aaacagctcc tgaaacttga      300
gcagcaaagt actggargct gactgatgcc ctcatgattt tccaccctct ctcccataa      360
agcatcttcc taaggaaatg amcatggcct gatactcatt ttgtcacttg tacagagccc      420
taaggatggt ctgaattcag tggtgccaaa taaatgttga cattcccctt ttggttgatg      480
gaagtatcag tgtgggaact gtttgcttaa tggcatttta taaaataaka akakcatatt      540
agcagggagg gagatgatgg agggaggagg aagtcatttt gtcttattta tcctttttgt      600
attaatagag aagcacttca cagtcactgg caatgccatt tataggaga aggttctgca      660
ttctgtctgc tcccgagggg cttaactttt taatgaaaga ataatgctc ttccactcag      720
tagataaagt gaaatgtgaa ttgttaataa ctgtgcacgg tcaataaagc gatgttttaa      780
ggaatacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg a      831

```

```

<210> 76
<211> 590
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (30)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (76)
<223> n equals a,t,g, or c

```

```

<400> 76
tatatataga cngttaatag tctgtantgn tgtgnacgaa cattaacgga agtagcatgt      60
agccagtcga ataacntata aggacaaagt ggagtccacg cgtgcggccg tctagactag      120
tggatccccc ggctgcagga ttccggcacga gctgccagggt gaggagcaga gagactgttc      180
ccttgggtgg agaggtgtgg gcatgagagc caccatttgc caagcagcaa gaatgttcgt      240
gcttttttcc cttccaaaat atgcagggct caggctccca attccggggc tgtctgcttt      300
gcttgtgttt ctctgtccc tgttctccc gaggggccag gtggaactca cgacaggagg      360
ggagacgctt cccaaaaacc tgcagggcta tttccagaa tttggttttc aagtacaaaa      420
ctttttgtcc tgtaagatat atgcagcctc acagaagcag cctctgcctc cactttacca      480
gctacgtttt tatcttaagc acatggggct cccttagaac ttactccact gatttaaaaa      540
aaaaaaaaaa aaactcgagg gggggcccgg taccattcgc ccctaaaagt      590

```

<400>	78						
aggatttttc	cttgttcaac	caaaatctga	gcattctttc	tatgttgaaa	acactgaaaa		60
actaatttwa	gttaatagaac	tagaaaagaat	attgattttw	aagaaacaga	aaaatactac		120
ttattttcct	tctcaataaa	cgtttctttc	aaaaactctt	ggctgaagta	taacatgctg		180
gtagttaaca	taaatcttgt	ctttctcttg	ttctttatct	ttctttgtta	tttagatgct		240
tgtataaatg	tcttttgttt	ttattaagtg	cctaattgac	agagcttaat	ttgaagaagt		300
gocctaattt	attgaccact	taagaattgc	ctttattggg	gtattttatt	tgttcctgcg		360
tctttttgat	gttgttcagt	ctactcatcc	ctgtgagtat	gtgtgggggc	cagctgatag		420
aaggggaggag	agtgtgtcta	tgctcaggat	tgcccttttag	ccactcagcc	agagatccac		480
agggggaac	aaggcagac	ttcacatgctt	agactttctt	ggaagaaaca	gtgaggagga		540
gtaagtcgtg	agtagtgtca	agctggatgt	agaattgtcc	taaggcagtt	gaccccacct		600
tccaacatgt	tttcacttta	tttggccctc	cctacatttg	ggtttaggtt	cattttggatt		660
tgcagcaata	atgacatttat	ttctctcttg	gtcaggattt	ggcacataaa	atccttttat		720
tatagaacta	gctatttttag	ttacatagta	atgtaactaa	tggagagatt	tatagagaat		780
tttgkttttg	ctgtcatata	ttgccatttt	ggagacagat	atgatagaac	tagaaattaa		840
gttgcatttc	tgcaagtgcc	atttgaatga	acttcaagta	tcttcttaat	tattaaattt		900
tctgatgaag	gcattgtaac	aaatatatag	tattattaaa	tctaatttaa	atttggaaat		960
attaataaat	aggtattttta	tttactgtaa	aaagctcaaac	ttcattatgt	agataaatct		1020
tattcttttc	attctttccc	ctgtttacat	cctttttaca	agctttagtc	accaattaaa		1080
qcttttcctat	aaaaaaaaaa	aaaaaaaaaa	actcgagact	agttctctct	cct		1133

<210> 79  
 <211> 661  
 <212> DNA  
 <213> Homo sapiens

<400> 79  
 gaattcggca cgaggggaaa aggatgctga acgagagcag aaagcctctt tccttttgett 60  
 cagccctttc cagtctttat tttaaactcg ggttcccttt ctgtggtcgc agcaaccttt 120  
 actccacctg cactgctgct cctgggggct cccagggcct cctctgctt tctacccag 180  
 tggctgacgg gatgctgtc ttgcttgac gcaccactgc tctcctgtcc ctcaccttg 240  
 cttttgctgt gccctgctct ggggttgaag ctggcccatg tgtcccccg agtcatggct 300  
 gctcctcctg ggaggcctct gtgtgcgtca cgtcttccac acctgggggc agctggcgag 360  
 cccgtgctct gtccccctcg gctgcttgcc acagagytgc agcctgggag tctccgtgga 420  
 cccagactgg ggattttgcc agggggggcg tgggaggagc aggtgctttg cctggcggt 480  
 gtgtctgcat ttctggacgc cccagagcac agaagttgcc ggcactttga ggtcttctc 540  
 ggcattgtgc agattacatg agtgacggct ggggaatatgt tttctttttt gtaatggagg 600  
 cgtgtttcac atatagtaaa gctcaccaaa aagtaaaaaa aaaaaaaaaa aaaaaactcg 660  
 a 661

<210> 80  
 <211> 1378  
 <212> DNA  
 <213> Homo sapiens

<400> 80  
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 tcacctcggg accctggagg tccaaggccc ccattgagga tacctaatac ggcacttgga 120  
 ggtgtcccag gaagtcagcc attactcccc agtggaatgg atccaactcg acaacaagga 180  
 catccaaata tgggtggggc aatgcagaga atgactcctc caagaggaat ggtgccctta 240  
 ggaccacaga actatggagg tgcaatgaga cccccactga atgctttagg tggccctgga 300  
 atgcctggaa tgaacatggg tccagggtgg ggtagacctt ggccaaaccc aacaaatgcc 360  
 aattcaatac catactcctc agcatctcct gggaattatg taggtcctcc aggaggtgga 420  
 gggccaccag gaacacccat catgcctagt ccagcagatt caaccaactc tggtgataac 480  
 atgtatactt taatgaatgc agtacctcct ggacctaaac gacctaatat tccaatgggy 540  
 cctgggtcag atggtcccat ggggtggatta ggaggaatgg agtcacatca catgaatggc 600  
 tctttaggct caggagatat ggacagtatt tccaagaatt ctcccaataa tatgagcctg 660  
 agtaatcaac cgggcactcc aagggatgat ggcgaaatgg ggggaaatct cttaaactct 720  
 tttcagagtg agagtactc ccctagcatg acaatgagcg tgtgatccat taccaagtct 780  
 cctcatgaaa accacagtga gtcagccctt cacagaacta ctacggaaga aaattattca 840  
 tcacagtgtc cagttaaaca aaggaatctc agtcacacca aaccaacctt tttatttct 900  
 gctctctccc ctcttttggt aagaaagcgg gtccaaatgt gattcaaaca actgtacgga 960  
 gtggcatatt agaattgcc taaactgaac tgcaaataat tatgtgtgta tgtatatgtg 1020  
 tgggaaagag aatgtactgt atatgtgtat gttatacaga catatacaca tacatacatt 1080  
 gaccacagg acattgtaaa atattatcac atgacatctt aagtagaat aagtagggac 1140  
 ttttattcca tctttttttt cagttttaca ttttaattat tacaagttgc tctgcccc 1200  
 tccctgaact atttgtgct gtgtatatca ctgctttata taagttattt tttaaggtga 1260  
 actcagatgt tatggttttg taaatgtctg caatcatgga taggaataaa atcgcttatt 1320  
 tgagagcttt cattaaaaaa aaaaaaaaaa aacttcgagg gggggcccg taccat 1378

<210> 81  
 <211> 1440  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE



```
<220>
<221> SITE
<222> (1440)
<223> n equals a,t,g, or c
```

```

<220>
<221> SITE
<222> (1379)

```

<223> n equals a,t,g, or c

<400> 82

ccccggctgc	aggaattcgc	yacgaggcca	gcagttgctc	ccagttcagg	aggtgctcct	60
gtaccctggc	cacagcccaa	tectgccact	gctgacatct	ggggagactt	taccaaactc	120
acaggatcaa	cttcagcca	gacccagcca	ggcacaggct	gggtccagtt	ctgacctgag	180
cacgggtttt	cctcatgtga	cttctgggaa	ggcgctccct	catctgggcc	aaaggaagga	240
ggacgaagcc	ctectcagct	ggcctgtgtt	tggggcatga	atctctectc	tcctocttgt	300
ctggctctgt	tgacaaaccg	ggcatgtttg	gcagtaaatt	ggcacctgtg	cacactgttt	360
cctgggattc	aagtatgcaa	ccagaacaca	ggagaagaaa	agctccagga	tcctgtccc	420
catctgtcct	cttgatgtga	gagagactct	gagacttctt	ccatcgcaat	gacctgtatt	480
aaacacaagc	cccccaagca	aaagaagagg	ttgagtttgc	tgccaggatt	cagatcagcc	540
cttcccaggg	tctgcagggt	tcacatgatc	acagttcagc	gggaggcttt	ccgtaccac	600
actggctgta	gcacttcagt	ccatctgccc	tccagaggag	ggtttcttcc	tgatttttag	660
cagggttaga	ggctgcagct	tgagctacaa	tcaggaggga	aattggaagg	attagcagct	720
tttaaaaatg	tttaaatatt	ttgctttgct	aatgtgtgta	tccgactaa	ctcatctttg	780
caaaaggaac	tgtccctcgc	gcgtgcccga	gctggggcct	ctgaagggat	tcctcactgt	840
gggcagctgc	cctgagcttc	aggcagcagt	gttcatctct	ggccagtgtg	ctggtttcca	900
tgtattctag	gccaggtagg	caacacagag	ccaaggcggg	tgctggaagc	cagacggaac	960
agtgttgggg	caggaagggt	gatgctgttg	tcattggagct	gtgggagtgt	gcactctgtc	1020
tgctggtggc	cctctcggct	cacatgttca	cagtgcagct	cctggcagac	ttgggttttc	1080
tccttgggtg	tttctaaagt	gccttatctg	caaacaactt	cttttctcct	tcaggaaactg	1140
tgaatggcta	gaagaaggag	ctcagtaaac	tagaagtcca	gggttgcttg	gtttactggt	1200
ttataagaaa	tctgaaagca	cctctgacat	tcctttttatt	aactcacctc	tcagttgaaa	1260
gatttcttct	ttgaaagggt	aagaccgtga	actgaaaaaa	gtgttgccct	ttttgcggga	1320
ccagattttt	aagataaaat	aaatatTTTT	acttctgtca	aaaaaaaaaa	aaaaaaatnt	1380
c						1381

<210> 83

<211> 1706

<212> DNA

<213> Homo sapiens

<400> 83

actgcaccac	tgcccagggtc	tcccggctgg	atgaagacgt	ggtccatgag	gaagctggct	60
agctcagact	ggagagtagc	ttcaggaaaa	aagacaagtg	gcctaaggaa	atcacggccc	120
ccaactatca	tctgagggct	aaagatgaga	agtagatcac	ttaataagac	aaaagcctgt	180
agggggaaaa	gaaaggatgt	ttaaaaggac	agaatgtttc	ccaaggtaga	aatgacactg	240
tcaattttctc	cttggaatgg	gggcagggat	actcgccttg	ttgctcccac	ttgagtcagt	300
actcacctgc	tcctggatct	cagtatccac	atctgagagg	caactctggc	agagttcaca	360
gaaggccacc	attctgtccc	tcaaactcga	cagctgcttc	tgtgggcaca	gtggcttgaa	420
ggggaagaat	gaagacacag	actcctctgt	tcctattatc	ccatctaaga	cccacactca	480
cctggggaaag	catctgattt	agaaatgtgg	gttagtgctc	agagaatgga	aaaatagaca	540
agagtcaagg	ctggcaggat	aacctgtaac	aacaaagggt	ttgaaaaatg	agggttgggt	600
taggagaggg	agagacagat	agccagaaac	acaccagtga	agaggagaga	aaatgagtaa	660
aggagagact	aattcctttt	ccagtggaaa	atgagtgata	ttctggacat	tcttcagagg	720
catctacacg	aagtagaaat	gtcaccgctc	cctaattttac	tctacgtctt	ctagaatccc	780
tcaatattat	ccttggcttc	caggaaaacc	aagaagaccc	tggaagtaga	gtccaccttc	840
taagagagga	atgtaagagg	tgaccccac	ccacctgatc	ttcctcgctt	tgtccactcc	900
acgcaactgag	acttgacaca	cctagtggcc	acctagaacg	taggtcctta	aaatytagcc	960
ccccagcccc	caacccatct	ctagcctgtc	cactcacctg	gtgaggaacy	tytctgtgt	1020
ccacagcytt	ctgcaggagt	tggcaaatg	gctcatagag	ctcccagcga	gtcagggtcat	1080
gagtgtcttg	ggggagaaaag	gggaatgtta	tactggaaaa	gaacagaggg	aaccaactcc	1140
acagacacca	gtaaaaacgg	gatggggaaag	aggaggaaag	ccactcactt	gtagaaggca	1200
gagaggcggt	tcagagtggc	tgccagatta	tatacctcat	cctcatctag	gaaggacgac	1260
tgagaaggaa	agaagatcca	caatagcatt	tccccagaa	ctcatcagtc	cacatcccc	1320
gtcttgacgc	ccctcccacc	cttgtttggg	gtgtcccat	gtccagcccc	agctcctacc	1380

00933757 "002201

```
<210> 84
<211> 573
<212> DNA
<213> Homo sapiens
```

```
<210> 85
<211> 684
<212> DNA
<213> Homo sapiens
```

```
<210> 86
<211> 1036
<212> DNA
<213> Homo sapiens
```

<220>  
<221> SITE

```
<220>  
<221> SITE  
<222> (1032)  
<223> n equals a,t,g, or c
```

[illegible]

```
<210> 87
<211> 908
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (805)
<223> n equals a,t,g, or c
```

[illegible]

<210> 88  
 <211> 655  
 <212> DNA  
 <213> Homo sapiens

<400> 88  
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 gactacaaaa tccgccttgg tattcttcaa atgcatatat attcctttct tgtcagctcc 120  
 ctctcttctt agattagaaa actgcctcat tttctgtctca ctggatgtgc agtcccagct 180  
 tgtcttctct cctccccccc ctggtgcagg tgttcttttt ttttttcttc tctccccact 240  
 gggcagcaaa agttgttcca cagtggaaaaw ttaggcatcc tcaagtttcy tcccagcttc 300  
 tgctgtgttt tcttagagta aattgccaat ttctgttttt acaggaaatc cttttttaa 360  
 aatggaatca gtgtggtccc catctactct gcaaaaattg ctttttcttc tattttcaaa 420  
 tgagatttgt tcaagtttca aaaccacgtg aaataataaa tgtatagtag ttttcttttc 480  
 cttgggcatt gctwgatatg tgaaatgggt ttatgaaaaa taataaaatc ataacgctat 540  
 ttgtttgact ttcaatttca tgggaatttt tctcagctaa actctaaatg gtgattargc 600  
 aaaaaaaaaa aaaaaaaaaacy graggggggc ccggtaccaa ttccgcctat aatga 655

<210> 89  
 <211> 1102  
 <212> DNA  
 <213> Homo sapiens

<400> 89  
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 tgcactctct cttatttctt tagaagagat tccaagaagc ggtgagtgat ttcacggcag 120  
 cagaggggtg ggacatatta cgggcgcgga tccctcttgg agtgagatga ctctccggag 180  
 agatttagtc gtcacctctg cgtgtgaggc tgcgtcacac cccagggatg tgtctatcaa 240  
 gatggaagat cttttacacg ctcttgattt tgtttgcctt tttttctatt actagtga 300  
 atgaaacttt ttatatgatt attatccatc ataatccaac acaaattact gcttcattgt 360  
 cttttacttt cctgtgaagg ttttagtgcc ttttaaaaaat tgctatatat taagcttgtt 420  
 aatacttcca tgctgtattt gtggccatca gtttccccgg gcacaggcct gcacattttg 480  
 ccttcacacg ctgggtgggt tttcattttc acttotatct ctggtcttc tatcgtttta 540  
 tgttcagacg ggtttctccg tgtagaaagc agtttatgaa gatttacttt cgacagtctt 600  
 ctctctactt tctacagtga attctctgay gtgtctgga gtwtgggggt ctgggtaaga 660  
 rtctctctct caccctatc tctattacga tccacagcct catgctttat garattgggtg 720  
 gccgggarcg ggggagattt gccgatcccc caagccagac tttatcccc tatccctgcc 780  
 tctggatccc acgtacaggc ctgggaactc cctgtgggta ggggccaatg gtctcgcact 840  
 ctcacctgta ccccagggtt ggcacaggat ggtcaaggag agaggctgcc caagcgcac 900  
 cytctgggtg cccctgaca cgcctccaaa gtgagcaggt aggtttcaac ageccccacgt 960  
 tgcaggtggg agatgaagct caggggtggag accagtatct cacagtcttc tttgcatggc 1020  
 cgggtacttg ttagtcaact gatcaagtga aaattctagc cccagaggca ggagaatccg 1080  
 gaacaaaatt aaaccagcca gg 1102

<210> 90  
 <211> 1533  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

<222> (123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1522)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1527)  
 <223> n equals a,t,g, or c

<400> 90  
 ggcacgagcc gncacgggca gcgccccata gcgccaggga ccccttgcca gcgggagccg 60  
 cgggtcgagg ttatggatcc agcggggcggc ccccgggggc tgcctcccgcg gccctgcccg 120  
 tgncctgggtgc tgctgaaccc gcgcggggcgc aaggggcaagg ccttgacagct cttccggagt 180  
 cactgtgcagc cctttttggc tgaggctgaa atctccttca cgctgatgct cactgagcgg 240  
 cggaaccacg cgcggggarct ggtgcgggtcg gaggagctgg gccgctggga cgctctggtg 300  
 gtcattgtytg gagacgggct gatgcacgag gtggtgaacg ggcttcatgg agcggcctga 360  
 ctgggagacc gccatccaga agccctgtg tagcctccca gcaggctctg gcaacgcsc 420  
 ggcagcttcc ttraaccatt atgctggcta tragcaggtc accaatgaag acctcctgac 480  
 caactgcacg ctattgctgt gccgcgggct gctgtcacc atgaacctgc tgtctctgca 540  
 cactggcttcg gggctgcgcc tcttctctgt gctcagcctg gcctggggct tcattgctga 600  
 tgtggacctg gagagtgaga agtatcgccg tctgggggag atgcgcttca ctctgggcac 660  
 cttcctgcgt ctggcagccc tgcgcacctg ccgcggccga ctggcctacc tccctgtagg 720  
 aagagtgggt tccaagacac ctgcctcccc cgttgtggtc cagcagggcc cggtagatgc 780  
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 catgggcccgc tgtgcagctg gcgtcatgca tctgttctac gtgcggggcg gagggtctcg 960  
 tgccatgctg ctgcgcctct tcttggccat ggagaagggc aggcataatg agtatgaatg 1020  
 cccctacttg gtatatgtgc ccgtggtcgc cttccgcttg gagcccaagg atgggaaaagg 1080  
 tgtgtttgca gtggatgggg aattgatggg tagcgaggcc gtgcagggcc aggtgcaccc 1140  
 aaactacttc tggatggta gcggttgcgt ggagccccc cccagctgga agccccagca 1200  
 gatgccaccg ccagaagagc ccttatgacc cctggggcgc gctgtgcctt agtgtctact 1260  
 tgcaggaccc ttcctccttc cctagggtcg caggcctgt ccacagctcc tglgggggtg 1320  
 gaggagactc ctctggagaa ggggtgagaag gtggaggcta tgctttgggg ggacaggcca 1380  
 gaatgaagtc ctgggtcagg agcccagctg gctgggcccc gctgcctatg taaggccttc 1440  
 tagtttgttc tgagaccccc accccacgaa ccaaatccaa ataaagtgc attcccaaaa 1500  
 aaaaaaaaaa aaaaaaaaaa ancccgnggg ggg 1533

<210> 91  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 atcctctgga atctaggtgg aagccaccaa gccttcttca cacttgcggt ctgagcatct 60  
 gcagacttaa ccccatgtgg caatcaccaa ggcttatggc ttgtgtcttc cagaactgtg 120  
 gccagagctg tacctggggc cctttgagct gaggctgaag ccagagtctg aagctcagca 180  
 gggcagtagc gccctggggc tggccccctga aaccattctt ttctcctaag cctctggggc 240  
 tttgatggga rgggtgtgct tcaagatttt tgaaatgcct ttggagggtt tttgccttgt 300  
 cttggatatt ggttctcttt tagttatgct catctctcta gcaagtgaat gtttcacaac 360  
 ctgcttggat tctttctcta ccacagarc caggctgcaa ttttacaac ttttactc 420  
 tgtttccctt tttaatatata atttcaatgt taagtcactt ctttgcctcc atatctgatt 480  
 taggttgctg gaagtagcca agtcacctct tgaatgctt gctgcttaga aatttcctct 540  
 actaggttagc ctgggtcatc acacttaagt tcaaa 575

<210> 92  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (126)  
 <223> n equals a,t,g, or c

<400> 92  
 tcctttcatc ttaagcacca cccgacaggg cagggtactat taccatctcc gtttgacaga 60  
 tnaggaacct ggcacaggaa gcattttaagt ggattcccca ggatcgcccc actgtcagga 120  
 gcagantcag aatgggcctc agcatcaggc tcccaatcct ggcttctaac tgctgcgctc 180  
 tgcccttcyc tcwccccacc tccccactcc agtgcccttg gtcatgccac tgcagctttc 240  
 aggccaatatc tggattagcc tcttagtggt ctgtgccctg cagccatttc cccaggcagc 300  
 aattccatgt gccctcactg atgtagggtg ctcttggtgc atttgtcaca tcctattgaa 360  
 ttgtttatgc atcttggtca cactcacagc accctccctc tcacacgtcc tccttataaa 420  
 aatgtccctc agtgtctgct atgagccagg tgcagactta agtgacaggg ctgctacggg 480  
 aaataaaaaa ttaacaagga gcacctgcct cttaatgcac agtaacaaac tatgttaagt 540  
 gtcaggaagg aaaggttaag gatgccagga aggcctttta taaataacct gacttagatg 600  
 ggcaggtggg gctgargatt aagaacgtgt tcttctcga 639

<210> 93  
 <211> 858  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
 ccccggggct gcaggaattc ggcacgagag tggctggagt ctggctgcag agggaagaca 60  
 tcagcaggga gggagccagg gcctgtcaca tctttcctct ggccattgtc ctggctcttg 120  
 taagcccaga atctcccctt ccctgaaggg aggccagcac cccaggaggg cagcaggtgt 180  
 gctgtgaggg ttggagtagt gtgagaggtc agggtagact agaattggcca tggacaccat 240  
 gtgggggtgc tctgggctgg gccacagaac agtgtccctc ctgctgctcc tcccctgcag 300  
 cttccccga ccttggtggt tatttggttt gataccaatc agcagaccct gcaagggtga 360  
 ggctcccagg cctctcagtc ccaccactct catgtgccag tcacccctac tgtaactgcc 420  
 caatgagtac ttcttgccca ctgccaagat agagccagtt taccaagaca ggggaattgc 480  
 agtagagaaa gagttgaata tacatagagc cagctaaatg ggagagtggg gttttcttat 540  
 tacttaaatc agcctcccct aaaattcaga ggtgagaatt tttcaaggac agtttggtgg 600  
 gcagggccta ggggaatggat gctgctgatt ggctagggat gcaatcatag ggggtgtaga 660  
 aaggctcctg tgcactgagt ccacttttgg gtgagagcta ccaaggagct gctgggtctg 720  
 tgggtcccgt agagccatct ggtgtcagga atgcaaaagt gtggccaggc acagtggccc 780  
 acacttgtaa tctagcact ttgggaggct gaggcaggag gaatgcttga gccaggagc 840  
 tcgagggggg gcccggtgta 858

<210> 94  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

09933767.082201

```
<210> 95
<211> 426
<212> DNA
<213> Homo sapiens
```

```
<210> 96
<211> 844
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (471)
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (490)  
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (732)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (835)
<223> n equals a,t,g, or c
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<400> 96  
 ggcacagcgg cagcagatag gaagcttggc aggggcagct cccccagtgc gcattgccct 60  
 gtaactcgag cgcctgggag tggggagagg cttggaaatg gagcaggggtg gtggacctcg 120  
 tcttctcctg ctcaccccag gcctcctcca taacacctac ctagcacggc ctggggactt 180  
 cccagcccaa ggaacaactg agaatactga gtgccagggt agccctagcc ccatttcaca 240  
 cctgggcaaa gtgaggtcac tggattcaaa cactcagatt taaacctcct ctgtgtctgc 300  
 agcacctgta tataactgcc agcctctgct gcccctctcc aaaaagtctc tgccttgtc 360  
 tttggcacct gtctctgtcc tccccattct ctgctcctcc tttctccaac tcagantcac 420  
 cctgttagtt cagcaaatgt tcatcgagct ccataatgta gcaggacagg nctgtctaac 480  
 agattctggn cttgcaagggt tgagacaagt actctccatc tttctctcat cttcacagat 540  
 ggtctgctca acaactttgc actgaattgt aaataattga tactgcataa aacattgatg 600  
 ttctttaagg gtagtccagc aaggtggcaa gtcttataat gataactgct caaggatctc 660  
 tcagtgaagc atttggggst gctagctctg cctatgggtg aggtcagcta tctcacgcca 720  
 tctacttcca cntgcccccc catgccaggc tcacctgag ctgagatgcc tgagcaggtg 780  
 gcagaaagga gccacctggt ttatgcttcg ggaccacaaa ctcctctatc cagangacag 840  
 tttt 844

<210> 97  
 <211> 1985  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (332)  
 <223> n equals a,t,g, or c

<400> 97  
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 aaaggagatc agggatgaat atgtggagac gctgagcaag atttacctgt cttactaccg 120  
 ctcttacctg gggcggtcga tgaagggtgca gtatgaggaa gtcgctgaga aagatgatct 180  
 aatgggtgtg gaagatacag caaagaaaagg attctyctca aagccatcgc tccgcagcag 240  
 gaacaccatt ttacccttag gaacccgcgg ctctgtcacc tccccactg aacttgaggc 300  
 ccccatcctg gtgcctcaca cagcgcagcg gnagagcaga ggtatccatt tgaggccctc 360  
 ttccgcagcg agcactacgs cctcctagac aattcctgcc gcgaatacct tttcatctgt 420  
 gaattttttg ttgtgtctgg ccagytgca cagcagctgt tccatgctgt catgggccgt 480  
 acactcagca tgacctgaa acacctggat tcttatctag ctgactgcta cgatgccatt 540  
 gctgttttcc tctgtatcca cattgttctc cggttccgta acattgcagc aaagagggat 600  
 gttcctgccc tggacaggta ctgggggaaca ggtgcttgcc ttgctatggc cacggtttga 660  
 actgatcctg gagatgaatg ttcagagcgt ccgaagcact gacccccagc gcctaggggg 720  
 gttggatact cggccccact atatcacacg ccgctatgca gagttctcct ccgctcttgt 780  
 cagtatcaac cagacaattc ctaatgaacg gaccatgcaa ttgctgggac agctgcaggt 840  
 ggaggtggag aattttgtcc tccgagtggc agctgagttc tectcaagga aggagcagct 900  
 tgtgtttctg atcaacaact atgacatgat gctgggtgtg ctgatggagc gggctgcaga 960  
 tgacagcaaa gaggttgaga gcttccagca gctgctcaat gctcggacac aggaattcat 1020  
 tgaagagttg ctgtctcccc cttttggggg tttagtgcca tttgtgaagg aggctgaggc 1080  
 tttgattgag cgtggacagg ctgagcgact tgcaggggaa gaagcccggg taactcagct 1140  
 gatccgtggc tttggtagtt cctggaaatc atcagtggaa tctctgagtc aggatgtaat 1200  
 ggggagtttc accaacttca gaaatggcac cagtatcatt cagggagcgc tgaccagct 1260  
 gatccagctc tatcatcgct tccaccgggt gctgtcccag ccgcagctcc gagccctccc 1320  
 tgccccgggt gagctcatca acattcacca ccttatgggt gagctcaaga agcataagcc 1380  
 caacttctga tgtgccagaa accgcccctga gatctgccgg tcatctccat ggacttctgc 1440  
 accccattcc atacccttct tcacctgggg taccccttcc agttttcccc ttgcttccca 1500  
 ggcccttgac atggcttacc tgccttccact cccagcacct tgcccaacag gataagctgg 1560  
 atcccccttg ccttctgaat atcccaggtt cttcaggttt cccaagacca ctccctgtg 1620  
 ggcttccaaa atggccctta tcatttctcc agtctgtcac cctccttccc tgcctccata 1680

```
<210> 98
<211> 1416
<212> DNA
<213> Homo sapiens
```

```
<210> 99
<211> 1760
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (24)  
<223> n equals a,t,g, or c
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```
<220>
<221> SITE
<222> (39)
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (255)

<223> n equals a,t,g, or c

<400> 99  
 gccttcaact cttgttttat tganttatga attcttaant cttctatggc aggagacatc 60  
 tatggggagg ctttgtttgt tttttgagac aggggtctcat ttgtcgccca ggggtgagact 120  
 ctgtctcaaa aaaataaaat aaaataaaat aaaaacaaag aaaaaaaaat aaaatcttta 180  
 ggcatcccca gacacaaaaga tctcagagac agacaacaga gagcytccgt gttcatctgc 240  
 ccgaggctgt ttgtncacag ttcccttaaa agatgcctgg aaatgctccc aacaacaagg 300  
 gactcaagta tggggctgag tttgttaaaa aagcagctaa atgtgttttag gaaacacacg 360  
 aagtgaacc agacagtgat ggcccatgta caagacttgt gcttgaagct ttggtgtgcc 420  
 tccatggcca atttttcagg caccaaaacc cattcctgat taattattgt taaaaaagca 480  
 gctaaatgtg tttaggaaac acacgaagtg aaaccagaca gtgatggccc atgtacaaga 540  
 cttgtgcttg aagctttgggt gtgcctccat ggccaatttt tcaggcacca aaacccattc 600  
 ctgattaatt attgatatac aatgcaaacc aaactatgaa aacacagact ttttttcaga 660  
 agagggaat aaaggcacag aaacctgcca aaatagatat ttttttccat aagaatagta 720  
 tgggtgatta aaatagttaa tcactagtta aacttgtatc actagagcag acaatacaaa 780  
 ttagtttttt aaaaaatgac attcactgaa ttcttggtct gtgcattcaa tgtgaataat 840  
 catcaaaaat atattacaat taaaggtttg taaggagctc tgtctgggat ttctgcagta 900  
 tattatttcg gaggagaaga accaccataa agtatgagct atccactgtt cctttttatg 960  
 tcatgtatgg taatcagtct atctccta atgcaggctcac aaacttccac ggtgagatgt 1020  
 ctaagtgact tagtgacctt cacactcatt aaaggcagcc ctgtccatca aactccatac 1080  
 ctagaagtt caataaactg tattacattt taataaatat ktctgtgtac tttttgtttt 1140  
 ttgcttttaa gctcagctta aattttgtca aggaaccat ttcacaagac agtatgtcac 1200  
 agctactat cagcaatagt ccttggttat tagaatctgc agatgtccat attacatcaa 1260  
 atataaatat atattatatt tacatttccct tcttagcttt caatttaggt gagtgtattt 1320  
 atagataatg ccactaacgc accactattc taatcctcag tgcaactcat acctctttc 1380  
 cattagatgc tcattaatgt aagacagcat cttaaaagag ggggtactgtt ctttttttaa 1440  
 ataaaaggaa agaaaggaa tccaagaatg gaggtctaga catttcttaa gagatttttg 1500  
 ttttgttttt tatacttaga aataacttgaa aaatgtggtc cttttttgta gtactagtct 1560  
 ctactggggg acaagaaaat agaatatgca actcagaaag gaaagascac aaagamgara 1620  
 raacctgctt gtttactcca ttaacctgtt taattaagat ctgcttttaa atgcctgatg 1680  
 ctgtgccagt atcatacaaa acatcttcca ccttccaagc agctgaagca cctcctcaaa 1740  
 attctgtttg tcctgaataa 1760

<210> 100  
 <211> 599  
 <212> DNA  
 <213> Homo sapiens

<400> 100  
 gaattcggca cgagcgtcca cgcagccgcc ggccggccag caccaggggc cctgcatgcc 60  
 aggtcgttgg aggtggcagc gagacatgca cccggcccg aagctcctca gcctcctctt 120  
 cctcatcctg atgggactg aactcactca agactccgct gcccccgact ccctgctgag 180  
 aagttcaaa ggcagcacga ggggggtctt ggctgctatt gtcatctgga gggggaagag 240  
 tgagagccgg atagccaaga cccagggcat ttccagaggt ggcgggacct tagtcctacc 300  
 cccaacacac acccctgagt ggctcatcct ccctttgggc ataacgctgc ccttgggggc 360  
 tccagaaaca ggcggtgggg attgtgccgc tgagacctgg aagggcagcc agcgtgccgg 420  
 ccagctgtgt gcattgctgg cttaatatgc agggcttggg gggctgtggc cacatgcccg 480  
 gcaggaggtg agtgaggagc cctgtggcgt gctgggtggg ggatcggtgg catttcaaac 540  
 gggcttgcgt taccctgaac aatgtatcaa tagagaaaaa aaaaaaaaaa aaaactcga 599

<210> 101  
 <211> 784  
 <212> DNA  
 <213> Homo sapiens

00433767.000201

<400> 101  
gaattcggca cagaaaaaaa agagagactg ggtcttactg tgttgcccag acttgtcttg 60  
aactcctgcc tcagcctctc aagtacttgg gattataggg caagaagcca ccatgcctag 120  
cttcttctcg tcattgatcc agactaatac tctgggggta gcctcatttc ttctctttct 180  
cactttgcac atccacttgt caccaaatck rggttcattct gcacccctaag taagtccttt 240  
gattcctcca gttgttcatt agtaatgtct caartgtaat tttttctagt agttttcagc 300  
ctgtctttcc kgccttcagt cttaacttct ccagtacata kgccacattg ttgtcagcak 360  
gatcawattt tatttaaaaa tactttacaw akgtttatkg ccaaataaata graaatacag 420  
attcatggaa agaaaaatca ctgtcccaag gaggtcactg gcatgggtgag gtttaaggggt 480  
gattttaatt tttaaaaaat tatatttttt cctgtgtaga gtagtaaacac ccttgaaaac 540  
acawtccctt gtaaagtctc taattctgta ctccgcatct agstgrtctc ttctttctca 600  
gatattttac aatttcattt atcaccacct ttctctagcc tttacccgtc tcttcaatat 660  
twacatatgc agaagtttct cctaacaaac acctgcctct gcctcagttc tgctaccacc 720  
ctgttgcttt ctltcccttc acaatcaaat ttaagagtgt caaaaaaaa aaaaaaaac 780  
tcga 784

<210> 102  
<211> 404  
<212> DNA  
<213> Homo sapiens

<400> 102  
ggcagcaggtt ataaaattga gactgatgaa acatcaatac tagagcccat gaggatgaaa 60  
gaaattatca aatagtgtctg aacagaataa gatgttaacg ctgagttatt aggactggaa 120  
ggctatgaaa agaacttgaa attgtcggaa tatgtgtctct ctcatgtca tattcaatag 180  
aagtttctag ttttaagattg attttgtgtt ttcttaggca tttcaagtga caagcaaagt 240  
aaatgtatat attatgtgat aaatcatgtt ttcaagaacg tcaaatttct ggactttttt 300  
ctttcaattt ttaattttta aagttttttt ggtattaaaa aatctattca caagccaaaa 360  
aatatataaa atatacagcg aaaagccaaa aaaaaaaaaa aaaa 404

<210> 103  
<211> 760  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (741)  
<223> n equals a,t,g, or c

<400> 103  
gggtcgaccc acgcgtccgc tgaccagtcg gttatagata cttcttccta taccaaaact 60  
gtttaaacag gtgccaccac aagggatgtc gtccttactc tctgcgggtc ttcaagcatc 120  
cctttgtggg aaargtctct gggcaagcac gtgggtatttg gtctgctgct tgcttccttt 180  
tttccaccag ggatgttgtg atcataagtc aaaacaacag tatattccaa atctcaaaag 240  
ctattgtggc ctgagcacia ttgaaatcta gcagagtttt tcttatgtag ctttagagta 300  
actcttctgc ttctctgtca cttacaattc aggttctgccc tttgcctaag agcatgagca 360  
gaagagtcct catgtgacgc ttagttctat tgcagtcctg ggtgaaacta ttttaagcwat 420  
ggggtgctk ctccccanwt cctccctaac aattcgttgt gtggacttct catctaaaag 480  
gttagtggct tttgcttggg atcagtgtct tctattgatg ttcttgctgg tctccagaca 540  
cattcctgtt gcattaagac ttgaaagact tgtagatgtg tgatgttcag gcacaggatg 600

ctgaaagcta tgttactatt cttagtttgt aaattgtcct tttgatacca tcatcttgtt 660  
 ttctttttgt aggtataaat aaaaacactg ttgacaataa aaaaaaaaaa aaaaaaaaaa 720  
 aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaaaaaaaaa 760

<210> 104  
 <211> 1351  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (544)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (774)  
 <223> n equals a,t,g, or c

<400> 104  
 cttcacagac tgacagaatg gttttgtttt gttttgtttt gttttgtttt gtttttgaga 60  
 tggactctag ctctgtcacc caggctggag tgcagtgggt cgatctcggc tcaactgcaag 120  
 ctccgcctcc cgggtttctca ccattctcct gcctcagcct cccgagtagc tgggactaca 180  
 ggcgcccacc accacgcccg gctaattttt tgtatttttt agtagagacg gggtttcacc 240  
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 agtgctggga ttacaggcgt gagccaccgt gcctgcccc gaatgggttt taaagccaca 360  
 gttgagargc caccatttgc cggcgccctg gacagtgtac atcttgttca tcttgttcag 420  
 tcctttcttg tgtgattgga attattcacc ccctttgaaa gatgagaagg ttgagatgca 480  
 aagagtctac ctttccaagt tctcactgct ggaaagarct agaagcacag ttcaaagtcc 540  
 tggnttctgg actctgcagt ccaggtytcc ctytccccc ttgcctacc tcaatgccac 600  
 actgtttttg aagtggccca taacttgaag graaagttta aagacagttc aatttaataca 660  
 tcagratgca ttcttttttt ttccggarac ggaktttcac tcttgcctgcc casgctggag 720  
 tgcaatggtg caatgatctc ggctcactgc aacctatgcc tcttgggttc aagngattat 780  
 ccagcctcag cctcccagat agctgggatt atggggcgccc accaccatgc ccagctaatt 840  
 tttgtatttt ttttttagt agagatgggg ttgcgccagg ttggccaggc tgktcttgtg 900  
 aaytccctggc ytcagggtgat ytgcccacyt catcytccaa aagtgcctggg attacaggca 960  
 tgagccactg cgcctggcyt cagaatgcat tcttacacat ctatcctaga catttataag 1020  
 cactctaatt gataacaatc caagaataaa tgattgtaaa agatgatgcc gaagagttga 1080  
 tgtcaatctt tttttcctaa gaaaaaaagt ccgcgagtat taaatattta gatcaatgtt 1140  
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 ttaatcatat acttgtcttt tgtaaatagc agcttttgtg tcattctccc cactttatta 1260  
 gttaatttaa attggaaaaa accctcaaac taatattctt gtctgttcca gtcttataaa 1320  
 taaaacttat aatgcatgta aaaaaaaaaa a 1351

<210> 105  
 <211> 2066  
 <212> DNA  
 <213> Homo sapiens

<400> 105  
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 tgcgcggggg gaatccgtgc gggcgccctc cgtcccgggc ccacccctcgc cgcgctccag 120  
 cacccttgaa gttttgcagc gccagaaaag gaggcgagga aggagggagt gtgtgagagg 180  
 agggagcaaa aagctcacc ctaaacattt atttcaagga gaaaagaaaa agggggggcg 240  
 caaaaatggc tggggcaatt atagaaaaca tgagcaccia gaagctgtgc attgttgggt 300  
 ggattctgct cgtgttccaa atcatcgct ttctggtggg aggttggatt gctccagggc 360

ccacaacggc	agtgtcctac	atgtcgggtga	aatgtgtgga	tgcccgtgaag	aaccatcaca	420
agacaaaatg	gttcgtgcct	tggggaccca	atcattgtga	caagatccga	gacattgaag	480
aggcaattcc	aagggaaatt	gaagccaatg	acatcgtgtt	ttctgttcac	attcccctcc	540
cccacatgga	gatgagtcct	tggttccaat	tcattgctgtt	tatcctgcag	ctggacattg	600
ccttcaagct	aaacaaccaa	atcagagaaa	atgcagaagt	ctccatggac	gtttccctgg	660
cttaccgtga	tgacgcattt	gctgagtggg	ctgaaatggc	ccatgaaaga	gtaccacgga	720
aactcaaatg	caccttcaca	tctcccaaga	ctccagagca	tgagggccgt	tactatgaat	780
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tccggctgcc	tgtgaatgag	aagaagaaaa	tcaatgtggg	aattggggag	ataaaggata	900
tccggttggg	ggggatccac	caaaatggag	gcttcaccaa	ggtgtggttt	gccatgaaga	960
ccttccttac	gccagcatc	ttcatcatta	tgggtgtgga	ttggaggagg	atcaccatga	1020
tgtcccgacc	cccagtgcct	ctggaaaaag	tcatctttgc	ccttgggatt	tccatgacct	1080
ttatcaatat	cccagtggaa	tggttttcca	tcggggttga	ctggacctgg	atgctgctgt	1140
ttggtgacat	ccgacagggc	atcttctatg	cgatgcttct	gtccttctgg	atcatcttct	1200
gtggcgagca	catgatggat	cagcagcagc	ggaaccacat	tgcagggtat	tggaagcaag	1260
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 <212> DNA  
 <213> Homo sapiens

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 <222> (724)  
 <223> n equals a,t,g, or c

<400> 106						
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<213> Homo sapiens

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<220>
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<222> (6)
<223> n equals a,t,g, or c

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<210> 108
<211> 1907
<212> DNA
<213> Homo sapiens

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<400> 108  
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<210> 109  
 <211> 611  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (19)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (21)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (47)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (607)

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (610)

<223> n equals a,t,g, or c

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<210> 110

<211> 2632

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2620)

<223> n equals a,t,g, or c

<400> 110

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 <212> DNA  
 <213> Homo sapiens

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 <222> (1579)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2226)  
 <223> n equals a,t,g, or c

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<210> 112  
 <211> 2198  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (621)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (640)  
 <223> n equals a,t,g, or c

<400> 112						
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<210> 113
<211> 1043
<212> DNA
<213> Homo sapiens
```

```
<210> 114
<211> 703
<212> DNA
<213> Homo sapiens
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<400> 114  
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<210> 115  
 <211> 3684  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (79)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2297)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (3679)  
 <223> n equals a,t,g, or c

<400> 115						
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00933767 "002201"

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<210> 116
<211> 1965
<212> DNA
<213> Homo sapiens
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<222> (51)  
<223> n equals a,t,g, or c
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```
<220>
<221> SITE
<222> (476)
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (1136)
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<223> n equals a,t,g, or c

<400> 116

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<210> 117

<211> 503

<212> DNA

<213> Homo sapiens

<400> 117

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<210> 118

<211> 1071

<212> DNA

00933767 "00220"

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

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&lt;210&gt; 119

&lt;211&gt; 1101

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (376)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (395)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1101)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 119

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<210> 120  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 120						
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<210> 121  
 <211> 2635  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2605)  
 <223> n equals a,t,g, or c

<400> 121						
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<210> 122
<211> 994
<212> DNA
<213> Homo sapiens
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```
<210> 123
<211> 2537
<212> DNA
<213> Homo sapiens
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<400> 123

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 atttgggtta ttattatatt tgtaacaatc ccaaagcaaa tctgtctcca ggctggagag 1740  
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 ggaggagagt gaaggtagag gggtaggaa gggtaagggg cagggtggt ttcagctggg 1860  
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 aaaaaaaaa aaaaaaa 2537

<210> 124  
 <211> 1390  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (498)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (499)  
 <223> n equals a,t,g, or c

<400> 124  
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 ttcccgggtc gacccacgcg tccgggcctc aggggtggacg catggttctg cactgaggcc 120  
 ctctgcatgg tggcgccctgt gtggtacttg gttagcggcg ctctgctagt cggctttatc 180  
 ctcttctctga ctgcagccg gggccgggcg gcatcagccg gccaaagagcc actgcacaat 240  
 gaggagctgg caggagcagg ccgggtggcc cagcctgggc cctggagcc tgaggagccg 300  
 agagctggag gcaggcctcg gcgcgggagg gacctgggca gccgcctaca ggcccagcgt 360  
 cgagcccagc ggggtggcctg ggacagaagca gatgagaacg agggaggaagc tgtcatccta 420  
 gcccaggagg aggaaggtgt cgagaagcca gcggaaaytc acctgtcggg gaaaattgga 480  
 gctaagaaac tgcggaannt ggaggagaaa caagcgcgaa agggccagck tgaggcagag 540  
 gaggtctgaac gtgargwgcg gaaacgactc gagtcccagc gcgaatgagt ggaagaagga 600  
 ggaggagcgg cttcgccttg agggaggagca gaaggaggag gaggagagga agggccgcga 660  
 ggagcaggcc cagcgggagc atgaggagta cctgaaactg aaggaggcct ttgtggtgga 720  
 ggaggaaagg gtaggagaga ccatgactga ggaacagtec cagagcttcc tgacagagtt 780  
 catcaactac atcaagcagt ccaaggttgt gctcttgaa gacctggctt cccaggtggg 840  
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 aatttaggct tcagaatata tccgagaggt ggggagggtc ccttggaagc tgggtgaagtc 1320  
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 aaaaactcga 1390

<210> 125  
 <211> 1288  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1286)  
 <223> n equals a,t,g, or c

<400> 125  
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 ccgggagcca tgcgacccca gggcccccgc gcctccccgc agcggctccg cggcctcctg 180  
 ctgctcctgc tgctgcagct gcccgcgccg tcgagcgccct ctgagatccc caaggggaaag 240  
 caaaaggcgc atccggcaga gggaggtggt ggacctgtat aatggaatgt gcttacaagg 300  
 gccagcagga gtgcctgggt gagacgggag ccttggggcc aatggcattc cgggtacacc 360  
 tgggatccca ggtcgggatg gattcaaagg agaaaagggg gaatgtctga gggaaagctt 420  
 tgaggagtcc tggacaccca actacaagca gtgttcatgg agttcattga attatggcat 480  
 agatcttggg aaaattgcgg agtgtacatt tacaagatg cgttcaaata gtgctctaag 540  
 agttttgttc agtggctcac ttcggctaaa atgcagaaat gcattgctgc agcgttggtta 600  
 ttccacattc aatggagctg aatgttcagg acctcttccc attgaagcta taatttattt 660  
 ggaccaagga agccctgaaa tgaattcaac aattaatatt catcgcactt cttctgtgga 720  
 aggactttgt gaagggaatt gtgctggatt agtggatgtt gctatctggg ttggcacttg 780  
 ttcagattac ccaaaaggag atgcttctac tggatggaat tcagtttctc gcatcattat 840  
 tgaagaacta ccaaaataaa tgctttaatt ttcatttgcct acctcttttt ttattatgcc 900  
 ttggaatggt tcacttaaat gacattttaa ataagtttat gtatacatct gaatgaaaag 960  
 caaagctaaa tatgtttaca gaccaaagtg tgatttcaca tgtttttaaa tctagcatta 1020  
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 ttcatagtea cattctctca acctataatt tgggaatatt gttgtgggtc tttgtttttt 1140

ctcttagtat agcatttttta aaaaaatata aaagctacca atctttgtac aatttgtaaa 1200  
 tgtaagaat tttttttata tctgttaaat aaaaattatt tccmacaacc ttaaaaaaaaa 1260  
 aaaaaaaaaa aaaaaaaaaa aaaaanaa 1288

<210> 126  
 <211> 1517  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (159)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1510)  
 <223> n equals a,t,g, or c

<400> 126  
 agtggccttaa aggcacgctt ttagggatta ctgggaagta tcttcaaagt aatacatgag 60  
 aaacattcct tcctaaatcc tttattatat tgaatatcgt attaattggg tttcagagg 120  
 taaattaacc atgtattcct gcaataaatg tcaactgtnt cttgtatata atctttttta 180  
 tatattaccg gattgattca ttagtatttt gttgaggatt tttgtgtcta tattcataag 240  
 agatgctggg ctgcagtttt ctttttttgt gataatctgg tttttgtatc agtaatacag 300  
 gccccatgaa acgagttggg aagtgttcac ctctcttgta ttttttcaag agtttgtgaa 360  
 gaattgctat taattcttta aatgtttggg agaatctacc attgaaatca tgtgtcctgg 420  
 gctttttttt gagggagtg tttcgataac taattcagta tctacttttt atagctctgt 480  
 tcagattttg cttcttcctg agttagtttt ggtaatttgt gtatctctag gartttgtcc 540  
 atttcattta tctcatttgt tggcataaat taaactaaat ttggcctgag cctacctgta 600  
 tatcttgagt ccctctgtaa ggaactgtag cctaacttgt acataaacia actgaaatcc 660  
 taaattagga atgtagtttt tgaacagct cctgagtcctc aggcagtcac agcagycag 720  
 tctgtcaatt gcaggctgct aactaagcag cccatgstca aatgaggcaa aaacctttgc 780  
 ttttaacaca tagtatagct ttgtaatcct tttcttgcac actcgggtaa tttcttctct 840  
 tttcattccc kgwattttcc akgaatatga rtctyccttt tttccctcc tgtcagtcta 900  
 gctaattggt tgtcaatttt gttgatcttt tgaaraacia acccttggtt ccactttctt 960  
 gttgcatatg ctgartattc tcataattgg agtggaagc tgatctttga ttacttattt 1020  
 tacttagggc tgaggagttc atggacttcg caaaacctcc ttgaatctaa attgcatctt 1080  
 ctttctctgt tctctgggctg aaacatgttt tttcccatct wanawacctc tggctctttc 1140  
 atkggcgatt aagactagag aaagttctag atmccctgtc cttttatgct gtcattttgt 1200  
 ttaaaggctt tctatgtagt aaaactatct atatagacia aatagagcct tgagttgtgg 1260  
 tcttgaattt gatcaacatg atttaccaca ttctgtactg gatatttctt cacctgtctc 1320  
 tactgtaaac cattttattc ttggatcttc tgtagagtat attatcacag gtacttttta 1380  
 caggggtgtc taatcttttg gcttccctgg gcacattgaa agaagaagaa ttgtcttggg 1440  
 ccacacatca aatacgctaa cactaataat agttgatgag ctaaaaaaaa aaaaaaaaaag 1500  
 gcaaaaaagn cccaaaaa 1517

<210> 127  
 <211> 1073  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (495)  
 <223> n equals a,t,g, or c

<400> 127  
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 ttctgcagtg tgaaatagat tgggtttggaa aatgaacctg gcttttgctat aaattacatt 120  
 cacaggcctt tttgcaaagt tgtaacctgc ctatcaaagt agtttgtagg gcaaatgcag 180  
 aatatatgtc tccatctggg aaagtacctt wtaytcatgt gggaaatcaa gtagtatcag 240  
 aacttggtcc aatagtccaa tttgttaaag ccaagggcca ttctcttagt gatgggctgg 300  
 aggaagtcca aaaagcagaa atgaaagctt acatggaatt agtcaacaat atgctgttga 360  
 ctgcagagct gtatcttcag tgggtgtgatg aagctacagt agggrrmgatc actcatgmta 420  
 ggtatggwgc tccctaccct tggcctctgw wtcataatctt ggcctatcaa aaacagtggg 480  
 aagtcacacg taagntgaaa gctattggat ggggaaagaa gactctggac caggtcttag 540  
 aggatgtaga ccagtgtctg caagctctct ctcaaagact gggaacacaa ccgtatttct 600  
 tcaataagca gcctactgaa cttgacgcac tgggtatttg ccactctatac accattctta 660  
 ccacacacatt gacaaatgat gaactttctg agaaggtgaa aaactatagc aacctccttg 720  
 ctttctgtag gagaattgaa cagcactatt ttgaagatcg tggtaaaggc aggctgtcat 780  
 agagttagtg gttagtctca ggagtcttaa cttttgaaat atgttttact tgaatgttac 840  
 attagatatt ggtgtcagaa ttttaaaacc aaattactgc tttttgaaac ctcaaattat 900  
 ataattgtatc ttatgtatgt gcttttatatt gttattttgt tatacattaa aataattctg 960  
 aattatttaa tctgatatgt tgtattctgt atcttgaaat ttttgtttcc ttgaaacatg 1020  
 catgcattta aaaataaagc ttaaacaact gtaaaaaaaaa aaaaaaaaaa ctc 1073

<210> 128  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (273)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (294)  
 <223> n equals a,t,g, or c

<400> 128  
 caaccctgc cttttttttg ttttccattt gcttggtaga tcttctcca tccctttatt 60  
 ttgagcctat gtgtgtctct gcccgtaga tgagtctct gaatacagca cacttactgg 120  
 tcttgactct gtatccaatt tgccagtctg tgtctttcat ttggagcatt tagcccat 180  
 acatttaagg tkaatattgt tatgtgtgaa tttracytr tcattatgwt gttagctggg 240  
 tattttgctt gttagtgtat gcagtttctt ccnggcacat atgggtctta caanttgga 300

<210> 129  
 <211> 1275  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1152)

00033757.002201

<223> n equals a,t,g, or c

<400> 129

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tggaggttat	gtgagctcct	tctcctttcc	tccagtttcc	tcttcccttc	tcctccctgc	120
ctcttttgc	tttccctttc	ttcctgggtac	cccctgcccc	ttcctgtatt	ttctcccatc	180
gccattctcc	cctctcccac	tgteccctaac	ccgttcaaac	tctttcctct	taaatgggtg	240
agattttctc	tcaccaagca	caccccagta	ttaattaaac	tagctgcaaa	caggcagcaa	300
gtggtctacc	atgacagatg	gggtttgtgt	gtgtgtgtgt	gtgtgttaatt	gtaataaaac	360
atattgartc	actcaataaa	cacagagtgt	ctactacatg	tatcargcac	tatcatagat	420
gctaattaac	gaaactgaaa	tggccaggcc	ctcacagtgg	ctcatgccta	taatcccagc	480
actttgggag	gatgaggcag	gaggatcact	tgaggccggg	agttcaagac	cagcctgggc	540
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ggttacatgt	gcagaacgtg	tagttttgtt	acataggtat	atacgtgccc	tggtagtgtg	660
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atctcattgt	ggttt					1275

<210> 130

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (472)

<223> n equals a,t,g, or c

<400> 130

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acacgttata	aaaaagcact	agaatgtttt	gaaagcgaga	aacaacagct	gtgtagggta	120
gctagcagtt	agtgtgttac	agaagacaga	tatttgtgca	tttytgcat	ttctaagttt	180
gctgcaatga	gcattgtatta	ctttcatagt	tataaaacac	atgcaaaatg	ccctttttaa	240
atgaaaaaaa	atccatgagt	gtaagtgtata	tatatgcttt	ggaaagcctg	ggacgggtcat	300
tgtttactct	caatagtatg	tgtttgcctt	tgtctttttg	agacattttg	ttttaatctg	360
ttgatgacaa	taacctgttg	ataatataac	ttgataacaa	ataaaatgac	ttatgattga	420
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<210> 131  
 <211> 1950  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (132)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (225)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (249)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (577)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1933)  
 <223> n equals a,t,g, or c

<400> 131  
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 gccgtgcctg tnatctcgtg gtgtatgatg aggaaatcat ggctggctgg gcacctgatg 180  
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 tccagacctt tgattcccgg ccagtggtcc ccagcccaa atctgtggg gccagtggca 300  
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 tgctctggat gagccccagc tctgcaacgg gcacatgggg ggagcctccc ggcggttga 420  
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 ctccctggt gccttcattg agttgggaac aggctgggaa ggatgcccag tcaaaggctc 1260  
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00933767 "002201"



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<210> 133
<211> 1720
<212> DNA
<213> Homo sapiens
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&lt;400&gt; 133

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ggatatagag	actcaacagt	gacattttat	gtacaacatc	aaggggaata	ggatactcat	180
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gctttttact	tcattctatt	aaattttagt	gtttagaaga	ggcgggtact	gtcactgtgt	1560
aaaaatagta	atattttata	tgttatacca	tgcatatat	acttgcaata	tcagaccttg	1620
cattcaatat	acaatgcaat	tgactctttg	cagacctgca	tttttcagt	aacaataaaa	1680
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&lt;210&gt; 134

&lt;211&gt; 705

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (349)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (409)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 134

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gacttgactg	ctattccatt	ttgggtatca	tatgtacctt	gatgaagang	attaggttgg	420
gatacttcaa	gtgaagcctc	ccactggaaa	caagctgcag	ttgttttaga	taatcccatc	480
caggttgaaa	tgggagagga	acttgtaact	agcattcagc	atcacaaaag	caatgtcagc	540
atcacagtaa	agcaatgaag	agcagttttc	caatgaaaac	tgtgtaaata	gagcatcaac	600

aagtacaaaa ttcttgtctt aattagtggg ggtatataaa aattccttgt aatgggtcaaa 660  
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<210> 135  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 135  
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gtattgtctg tcctcagttt tgcttgggga aatggaggst cagtgcgtt cagtgcgtg 180  
cccagagtca tgccattggc ggggggccc gkgmtccagg tctccagcac cctcggccc 240  
cctcctcacc aggtcacatc atctcctgga ttagaatctg ctacatagt ctgtcctgaa 300  
aggaaaaaaa aaaaaaaaaa aac 323

<210> 136  
<211> 582  
<212> DNA  
<213> Homo sapiens

<400> 136  
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ctctacactg caaagcagac aatattaggc agcagtgtgt actatttctc cattatgtta 360  
aagttttcat cttcagggtat ctgaaagtac agaatgctga gagtcatgtt cctgtccatc 420  
cttatgaggc tttggaggct cagcttccct cagtgttgat tgatgagctt catggattac 480  
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<210> 137  
<211> 1021  
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<220>  
<221> SITE  
<222> (248)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1004)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1014)  
<223> n equals a,t,g, or c

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00933767.03204

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<211> 1777
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (661)
<223> n equals a,t,g, or c
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<211> 643
<212> DNA
<213> Homo sapiens
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<210> 140
<211> 1220
<212> DNA
<213> Homo sapiens
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gagtagctgg	gattacacgt	gccccaccac	acgcccgact	aatattkgta	tatttagtag				180
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tgtttgttt	taaaagatgg	artttcactc	ttattgcccs	ggctggaktg	caatggcacr				360
atctcggctc	accgcaatct	ccacctctcg	ggctcaagca	attnttctgc	cccagcctcc				420
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<210> 141  
 <211> 721  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (623)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (626)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (638)  
 <223> n equals a,t,g, or c

<400> 141	
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tcaacagtgc	tgcaagagga tggttattta acgctggccc ccaaggagga aaggcacaga 180
cyttctccc	tcctggaaca tccaagggca ctggatcctc tgtgtccctc tgagatgggg 240
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gaggggaagag	agccaggtct ggagaccggc acccaggcag cagactgcaa ggatgccccg 360
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taatttccc	cagctcctcc ccncngaag aaggaaacnaa agaaagttcc tcccacacgt 660
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<210> 142  
 <211> 1468  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (901)

<223> n equals a,t,g, or c

<400> 142

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aaaattctaa	tataaagcat	ttcaatagga	tgcataagga	tattacgttt	tttaaatgct	240
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ttctatttta	aagcacttat	gagttacatg	ttgtaatcaa	gtttgcacaa	tatatttatc	360
tatatgagga	accataaat	gaatagctaa	ttttttaa	gccattaaaa	tgcatagaat	420
kcttattaaa	accttactat	actatttctt	caaggcaagt	aaattgacca	tgrgraaagr	480
acacagttat	taaacactgt	tgacaggaaa	attctccttg	ataacatagg	acaattaatg	540
gaaaaaaaa	ttctcattat	ttgcaaagaa	tgaacaagtt	aatgaacaaa	caaactagat	600
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caggtaattt	cagaatgttg	aaaattattc	agtgcagccc	tcatagtatc	atacttgaag	780
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<210> 143

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (284)

<223> n equals a,t,g, or c

<400> 143

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tctgttaatc	ttttgtatc	rtttatgctc	tcgtaacattg	agtactttta	ttccaaaact	180
agtgggtttt	ctctactgga	aattttcaat	aaacctgtca	ttattgctta	ctttgattaa	240
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<210> 144

<211> 2243

<212> DNA

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (929)  
 <223> n equals a,t,g, or c

<400> 144  
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<210> 145  
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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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09933757.082201



<222> (354)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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ng 1082

<210> 146  
<211> 4313  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1126)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (4015)  
<223> n equals a,t,g, or c

<400> 146  
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09933767 032204

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gttctcaaac	tgacagccag	cgagactggg	ggggaggccc	tgagatctgt	ctccctgact	3840
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<210> 147
<211> 1183
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (1053)
<223> n equals a,t,g, or c
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<400>	147						
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ggagtctccgg	ggcgggttag	agaggacca	atctcagggt	ccccctgactg	tggctgctta		120
tcakwyyggg	agtgtctact	cagctgctat	ggtcacagct	cctcacctgt	tggccttccc		180
acctctgctg	ttgatcgctg	agcgcatcag	ccttggtgtc	ctgcttctgt	ttctgcagag		240
cttcctttct	ctacatctgc	ttgctgctgg	gatacccgct	accacccttg	gtccttttac		300
tgtgccatgg	caggcagtet	cggcttgggc	cctcatggcc	acacagacct	tctactccac		360
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ctgtgccttg	gcagctccca	tctcttcgag	gcactcttat	gtctggaaa	tgtttggccc		780
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acagtggaagt	atgatcccta	actcctgatt	tggatgcact	tgagggacaa	gggggkcggg		1140
stcgaagtgt	gaataaaata	ggcgggcggt	gtgacttgca	cct			1183

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<210> 148
<211> 734
<212> DNA
<213> Homo sapiens
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<400>	148								
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gatgtcgcca	gcattacctt	ccactgcctt	tctcctctgg	aagcagcaca	gctgagactc			180	
ggcaccaggc	cacctctgtt	gggaccacaca	tggcaagagt	tggcagcaac	tgcmtgctg			240	
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gagaagaagc	tctcatacgc	cttcccactc	cctctggttt	ataggacttc	actccctagc			360	
caacaggaga	ggaggcctcc	tggggtttcc	crrrggcagt	aggtcaaacg	acctcatcac			420	
agtcttccct	cctcttcaag	cgtttcatgt	tgaacacaga	tctctccrct	cccttgtgat			480	
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<210> 149
<211> 1405
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (604)  
<223> n equals a,t,g, or c
```

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<220>  
<221> SITE  
<222> (842)  
<223> n equals a,t,g, or c
```

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<220>  
<221> SITE  
<222> (1079)  
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (1334)
<223> n equals a,t,g, or c
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<400>	149							
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catggcatca	ctgactccca	tacctctggc	tatcaaaggt	ttctgccaat	gccacctctg			120
aagaaaacca	gaggagagta	gcacagggaga	tcaggtccct	tctactctgg	ttctgtctct			180
gtgaaattgt	ctcaggctgg	ctgtgtccag	arggtccctg	gttctctcar	ggatgcaaaa			240
tctacaagaa	tctctcctct	tccagttcct	ataacctctc	cttccttttg	tctctttaga			300
ccttgaggta	gtagcagcca	ggttctttct	atctctgggt	tagtgcatta	tctctggtgg			360
cttccttacc	caggactttg	ggaatggtct	ttttgtaata	cattctctctc	aaataattca			420
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tttagcagag	aaggagactg	aagctcaggg	agggttaagt	tottttctcta	ggtcgatttg			540
tggagaaagt	ggctgactgg	ggacttgaat	gaggtcccta	gtttctatgt	cggaggggcaa			600
agangaatgt	ccaattggcc	tgagataaag	ctctggtaaa	atgtactgta	cataataggt			660
aatcaataaaa	tgttggctga	tgacaaaacat	gttttctttg	ttcattagtt	atagtgatta			720
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agaataaaaat	gagaggatgt	gtgtcaaagg	tgtatttttg	caatagtctc	tgagccattt			1020
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cctcccttaa	tgagggtgtgc	gaggtacaag	atpygtgagg	tggcaaaagg	tgggctcctg			1140
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taattaaagt	ttttaaaatt	caatttgga	agttagcaag	ctagctcctk	tccaggwaaa			1260
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gtgtcctat	ggggtcacat	tgatg						1405

<210> 150

<211> 2890  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> n equals a,t,g, or c

<400> 150  
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 catatgggacc aaattatggt ttctgatcat agcacaaaagt ataacaggca aaatcaaagt 300  
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 ggagaagact cagaaggtga cacaggcaca ataaagcgga ggggtggaaa ggatgtttcc 420  
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2890

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<220>
<221> SITE
<222> (2364)
<223> n equals a,t,g, or c
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<210> 152  
 <211> 802  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (730)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (755)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

0933757.082001

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aactcgaagcc	ggcgcttcaa	gtgggccatt	gagctaagcg	ggcctggagg	aggcagcagg				180
ggtcgaagtg	accggggcag	tggccaggga	gactcgctct	accagtcggt	ttacttggac				240



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<211> 642
<212> DNA
<213> Homo sapiens
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<210> 156

<211> 1251  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
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 <211> 2127  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (312)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1212)  
 <223> n equals a,t,g, or c

<400> 157  
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<210> 158

<211> 1625

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1066)

<223> n equals a,t,g, or c

<400> 158

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<210> 159  
 <211> 1687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (334)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (505)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1044)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1670)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1683)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1684)  
 <223> n equals a,t,g, or c

<400> 159						
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acatctctgg	atagtgcact	ggatccagag	gagctggcag	gagtcagggg	acatcagggg	180
ctaagggacc	aaaagcgtat	gcgacttact	gaagtgcag	atgataaaga	ggaggaggag	240
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<210> 160

<211> 1842

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1793)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1834)

<223> n equals a,t,g, or c

<400> 160

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 ttgatgggtt tctaaaacat gaaggacctc ctgcagagaa acccctggaa gaactctctg 360

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<210> 161

<211> 770

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (744)

<223> n equals a,t,g, or c

<400> 161

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<210> 162

<211> 519

<212> DNA

<213> Homo sapiens

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<210> 163  
<211> 753  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (720)  
<223> n equals a,t,g, or c

<220>  
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<222> (730)  
<223> n equals a,t,g, or c

<220>  
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<222> (736)  
<223> n equals a,t,g, or c

<220>  
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<222> (741)  
<223> n equals a,t,g, or c

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<210> 164  
<211> 1893  
<212> DNA  
<213> Homo sapiens

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<210> 165  
 <211> 2153  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (101)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1670)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (2134)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2135)

00933757.032201



<223> n equals a,t,g, or c

<400> 165

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<210> 166

<211> 1251

<212> DNA

<213> Homo sapiens

<400> 166

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&lt;210&gt; 167

&lt;211&gt; 882

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (522)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (752)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 167

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caagctcaag	aatacaccaa	Ttctttctgc	gcgacccttc	Tg		882

&lt;210&gt; 168

&lt;211&gt; 1208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (161)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 168

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00933767 002201

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aatagtatta	gtagcaaata	tattaagtat	gtcaaatatg	tcaaatgctg	ttgtaagtga	360
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tattctgtcg	ctgttaccta	ctaattgggt	wacctgtggc	aagctathtt	accyctctaa	600
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<210> 169  
 <211> 1258  
 <212> DNA  
 <213> Homo sapiens

<400> 169						
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 <211> 1624  
 <212> DNA  
 <213> Homo sapiens

<400> 170						
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 <211> 2003  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1961)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1999)  
 <223> n equals a,t,g, or c

<400> 171						
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<210> 172  
 <211> 786  
 <212> DNA  
 <213> Homo sapiens

<400> 172						
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<210> 173  
 <211> 1758  
 <212> DNA  
 <213> Homo sapiens

<400> 173						
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<210> 174  
 <211> 1369  
 <212> DNA  
 <213> Homo sapiens

<400> 174  
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 tatctcagag cccaccatac catgctgctc catttccatc ctctgctgca aagctctttg 600  
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 agaaataact gttgtgtgct gctggtgctg aagctgctgt ggcaccatgg gaaagggtggg 960  
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<210> 175  
 <211> 2379  
 <212> DNA

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<220>  
<221> SITE  
<222> (1881)  
<223> n equals a,t,g, or c
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<210> 176  
<211> 1348  
<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (407)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1331)

<223> n equals a,t,g, or c

<400> 176

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<210> 177

<211> 1502

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (470)

<223> n equals a,t,g, or c

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<220>  
 <221> SITE  
 <222> (1024)  
 <223> n equals a,t,g, or c

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 gaaactcttc tatagagaat ggagttggat taataatagg tgatttttta cactggactg 180  
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<210> 178  
 <211> 1637  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
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 gggatatcaag tcaagatata aagactgcag catggcgacc ctgacatccc atctacaaaa 180  
 ccaaagtaac aattcaaact ggaacctcag gaccggaagc aagtgcacaaa aggatgtgtt 240  
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aaaaaaaaaa	aaaaaa					1637

<210> 179  
 <211> 2911  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (622)  
 <223> n equals a,t,g, or c

<400> 179						
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catagagatc	aatttgccaa	atattcacaa	tcagttagtt	ctagtttaca	tgccaaagtc	1860
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<210> 180  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 180						
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gtgcccacac	ttcagacctt	ggcagtcctc	actgaggcca	ttggcccaga	gcccgccatc	180
ccccgaracc	cccgggagcc	gcctgttgcc	acgtccacac	ctgccacacc	ctctgccggg	240
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tcccccaggc	ctagcccttg	gaaggagaca	ggagtctagg	gaggctgaag	cccactcccg	420
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<210> 181  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (45)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (135)  
 <223> n equals a,t,g, or c

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aaccgccccg	stcanttgtg	atttcaggag	gatttgatga	agatgttaaa	gcgaaagtgg	180
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gccctccctg	tcccccttctt	cccctcccct	tcccccgcgc	gtggagacag	ctgttytcag	300
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ggaagctg						968

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 <211> 1128  
 <212> DNA  
 <213> Homo sapiens

<400> 182						
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aggggtatat	tagaaaaatc	atcctcataa	tcattctggg	aagtttttcc	tccccaaaaa	180
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aaaagaacca	tgaactgtga	ttttgagttt	ctatgtttata	gcagtcagca	aatcctatta	1080
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<210> 183  
 <211> 2276  
 <212> DNA  
 <213> Homo sapiens

<400> 183						
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cagtcagtga	aatctttttaa	gatgccatcc	tcaaatatag	aagaggaaga	cagccatttc	660
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ttgacttttt	atattgatatt	gtgc aaatgt	ttgccatagg	caattgggtac	ttaaatgaga	960
gggtgagtctc	tcttttgcct	tgggtgctttg	gaaattaaat	gtcacaaacg	agtatataat	1020
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 <211> 3374  
 <212> DNA  
 <213> Homo sapiens

<400> 184						
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cagttccagt	acgatgacag	tggaacacc	ttcttctact	tcctcacctc	cttcgtgggg	180
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ccttatgaag	tattaaattt	ggatcctgga	gccacagtag	cagaaattaa	aaaacaatat	480
cgtttgctgt	cacttaataa	tcattccagat	aaaggagggtg	atgagggttat	gttcatgagg	540
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gaccagaaaa	attcaattct	ggttttactt	gtatatggat	tggcatttat	ggttatcctt	720
ccagttgttg	tgggctcttg	gtggtatcgc	tcaatacgtc	atagtggaga	ccagattcta	780
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acaagcagag	caacggataa	tatttctaata	ccacagctaa	tcagagaaat	tggcagcatt	960
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<210> 185  
 <211> 1337  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1337)  
 <223> n equals a,t,g, or c

<400> 185  
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ccgggggggg	gcccgggn					1337

<210> 186  
 <211> 941  
 <212> DNA  
 <213> Homo sapiens

<400> 186						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	a		941

<210> 187  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<400> 187						
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gcaggagaat	cgtttgaatc	tgggagttgg	aggttgagct	gagctgagat	cgcgccacag	600
cactccagcc	tgggtgacag	ggtgagactc	tgtctcaaaa	aaaaaaaaata	ataaataaag	660
taaaaaaaaa	aaaaaaaaa					678

<400>	189							
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cctcacgctg	tgctactgct	ggcaccagct	gyctcatttc	cggttggggc	agcagctcca			660
gcccccagtt	acgcctgcct	cacaccttgc	gatgcgccaa	catcaccatc	attgagcacc			720



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ctcttcaagg	cattatctcc	tggggccagg	atccgtgtgc	gatcaccoga	aagcctgggtg	900
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&lt;210&gt; 190

&lt;211&gt; 906

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 190

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tgcttctcaa	tcattttggc	ataacttgat	tgtggctgta	attttttttt	ttttttttgt	840
caagcatgtc	agacaataaa	gtctttgtaa	aaagrgaaaa	aaaaaaaaaa	aaaaaaaaaa	900
actcga						906

&lt;210&gt; 191

&lt;211&gt; 1941

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (561)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

0093767 "000001"

<222> (1414)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1422)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1427)  
<223> n equals a,t,g, or c

<400> 191  
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ctcagtgacc gaaagaaccc ggtgtgccgg agatggctgt ggtactgctg gccaacctgg 240  
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cccgcgctt gcttgccctg gccaaagtg acgagaacca ctcagagttt actctgtacg 480  
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cgtgtgtgtg tgcgtgtgtg gagaacttag aaactgactg ttgcccttta tttatgcaaa 660  
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ggtaagactt taaaaaaaaa a 1941

<210> 192  
<211> 2118  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1324)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1643)  
 <223> n equals a,t,g, or c

<400> 192  
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 tggatatggg ggggtagagt gcttctgggt tggtcacttt aagaaaacat ctgccaagag 180  
 agaagagtgc ccaggaaaaga ccaggaaaat acaagtagat ggctgcttca taccatatac 240  
 cccaattctt taaagcagca aaaggcactt tttttttcag gccagagtga atctaaaaca 300  
 aacctggcct tgcttacagg gaagctgtcc cagaaggact gagtgatgcc tcttggtccc 360  
 taaggtctgg agagtctttg caagtttcca acgacatttc caaccagggt ggagagacca 420  
 gcagttgacg agacaagtca gacccaaaaa acgacgccaa ggtagtgagt ggggtgcctat 480  
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 gaaggaacta ttattacttt aaaagtgagg gtaatttaca tatgggggtg atatatctta 720  
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 cagcagcagc cccctccttc tgtgtccatc tgatgcaggc aagcaggagc agtaagaggg 1080  
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 agatagttta atatatgc 2118

<210> 193  
 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (112)

<223> n equals a,t,g, or c

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tgtgtttgag	gtgccaaaac	agaattgaaa	atatgagacc	gggcagcttt	tccttcatag	300
catttttggc	taccgaggtg	tcgtcctggt	tccttggcag	gccagactgt	rtgaccggga	360
tgtggttct	gcagctccag	aaaaagcaga	gaaccttgc	ggccatggct	ccaaggaggt	420
gaaaggcaaa	actcacactt	actatcaggt	gctgattgat	gctcgtgact	gccacatat	480
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cctctccacc	aaggaaactgt	gttcagctgc	cacagcctgc	gaggagtctc	ctggcctgtc	1440
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaactcga			1538

<213> Homo sapiens

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<221> SITE

&lt;222&gt; (438)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 194

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agaatacatt	tgggaaggga	aaaaatgaac	actgttgttc	attgcagccg	tgttttgtga	720
cacagatgca	cagtctgctg	tgaagacctt	ctctcaagtg	gsatytggga	gtccatgcca	780
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tggttcatcc	ttgtccaaat	gcagagtcag	agctatttgt	acttcattat	tatttccaag	1020
gcgaatagtt	ggctttcttt	ttgcaaaaat	aattaaagtt	tttgtatgtt	gcaaaaaaaa	1080
aaaaaaaaaa	ctacgtag					1098

&lt;210&gt; 195

&lt;211&gt; 1001

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 195

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gccttcccc	aaccactgct	ccaccctggt	taaccaccat	tctattctca	acttctctgg	960
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&lt;210&gt; 196

&lt;211&gt; 1458

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 196

ggcagcagat	aaactgaaat	aggctcatgca	aatataaaat	attattttta	aattatttgt	60
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tgtggaaggt	ggtcatcaga	tagtagacat	tttctaggat	ttatttctac	ctgcatatgt	180
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ggcagggcgcg	tacagtgaac	ttgtcctttg	ccagacgcca	gcgtctgccc	ctgaccccgt	360
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&lt;210&gt; 197

&lt;211&gt; 1282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (675)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1195)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 197

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cactgcttta	ttctgggtctc	agtattgtgt	gcttaataag	gaaatgagaa	aggggtggatc	600
agggcatagg	atgaacaagt	tactgctaga	cctctcaca	tgccactaat	ggataagatt	660
gtattttcat	cattncttgt	ctcttcggaa	gctaacacca	tgctataata	ggcactaaat	720
agatgtctaa	aaacacctta	agtatttgtc	tagaaatctg	gtgcattgtc	cagaaagaac	780
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 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

0993767 0993767

<400> 207  
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<211> 872  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<223> n equals a,t,g, or c

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0993767-09204

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<210> 209  
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 <212> DNA  
 <213> Homo sapiens

<400> 209						
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<210> 210  
 <211> 2110  
 <212> DNA  
 <213> Homo sapiens

<220>

0933757 03204

<221> SITE  
 <222> (750)  
 <223> n equals a,t,g, or c

<400> 210  
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<210> 211  
 <211> 938  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (200)  
 <223> n equals a,t,g, or c

<400> 211  
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092307 092307

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&lt;210&gt; 212

&lt;211&gt; 1551

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (420)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1017)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1408)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1423)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 212

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 <212> DNA  
 <213> Homo sapiens

<400> 213						
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<210> 214  
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 <212> DNA  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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 <222> (1485)

09933767-062201

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1492)

<223> n equals a,t,g, or c

<400> 214

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&lt;211&gt; 999

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

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&lt;210&gt; 218

&lt;211&gt; 941

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

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 <212> DNA  
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<211> 2031

<212> DNA

<213> Homo sapiens

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<400> 223

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<211> 707

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<213> Homo sapiens

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09937 09201



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<212> DNA
<213> Homo sapiens

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caaaactgtc aggtgagcct gatgtgaac acgtggcctg tcatctcagc ctttgccaat 660
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ttctctggct tctcatctt cctctctga ggacccaagt ytttcaagca caagaatcca 840
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tcga 1384

```

```

<210> 226
<211> 774
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (773)
<223> n equals a,t,g, or c

```

```

<400> 226
tttaaagatg aagaaatgac aagggaggga gatgagatgg aaaggtgttt ggaagagata 60
aggggtctra gaaagaaatt tagggctctg cattctaacc ataggcattc tcgggaccgt 120
ccttatccca ttaattaat ttctctgaca attcaattat tttctgttat taatgttgcc 180
actgctttct gtttgcctgc actttcttga taaatatttg ctatcgtttt actccagtca 240

```

```
<210> 227
<211> 865
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (344)  
<223> n equals a,t,g, or c
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<400>							
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ggtaaacagga	cceggtggggt	cccacggaag	tcttagaggg	ggtcgggggtt	tgggtggaca		120
agctttctctc	gtcctctccc	gacagagctg	acctgtctcg	ggattccaccg	ggagcgggca		180
tttccaccgg	acgggagggt	tgggggtgtc	cggggctggg	gaatacgtag	gggttgcgcg		240
gcggtgtggg	gagttagggcg	gtgtggctgc	agtc ccggga	gttcttgga	ggggtcggcc		300
caccgagctt	cgggacggcg	tgatctgccc	gtagcttgcc	gganggargg	cggagctgac		360
tctccglccc	ttctcccact	ccctccagtg	tgggttacgg	gcacctcgct	ggcgtctctc		420
tccctcctgt	ccctgctgct	ctttgctggg	atgcagatgt	acagccgtca	gttgccctcc		480
accgagttgg	tcaccatcca	gggcggcctg	cttggttcgg	gtctcttcgt	gttctcgctc		540
actgccttta	ataacttgga	gaatcttgtc	tttggcaaa	gattccaage	aaagatcttc		600
ctcgagattc	tctgttcctc	cttcttggtc	ctctttgcac	ctggcctcat	ccaccgagtc		660
tgtgtcacca	cctgcttcac	cttctccatg	gttggtctgt	actacatcaa	caagatctcc		720
tccaccctgt	accaggcagc	agctccagtc	ctcacaccag	ccaaggtcac	aggcaagagc		780
aagaagagaa	actgaccctg	aatgttcaat	aaagttgatt	ctttgtaaaa	aaaaaaaaaa		840
aaaaaaaaaaa	aaaaaaaaaaa	aaaaa					865

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<210> 228
<211> 1102
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (462)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (469)
<223> n equals a,t,g, or c
```

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<400> 228
      tttttttttt accatttaaa ataaaatgaa agtgaccttc tgtttataaa aatctttgtc      60
      tgcattctctg cttatttcct tagaagagat tccaagaagc ggtgagtgat ttcacggcag      120
      cagagggttg  ggacatatta cgggcgcgga tccctcttgg agtgagatga ctctccggag      180
```

```
<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c
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<220>  
 <221> SITE  
 <222> (1921)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1927)  
 <223> n equals a,t,g, or c

<400> 230

ntctacccta	atcaagatgg	ggacatactt	cgcgaccagg	ttcttcatga	acatatccag	60
agattgtcta	aagtagtgac	tgcaaatcac	agagctcttc	agataccaga	ggtttatctt	120
cgagaagcac	catggccatc	tgcaaatca	gaaatcagga	caataagtg	ttataaaacc	180
ccccgggaca	aagtgcagtg	catcctgaga	atgtgctcta	cgattatgaa	cctcctgagc	240
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gctagctgtc	tgtctggaga	ggagtcctat	tgggtggatgc	agttcacagc	agcagtagaa	420
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atgagctaac	aagcagggtc	tctcgtcttt	gggctctttc	ctttctgagt	tgcatattct	660
attttcttgt	ccccaaagtag	agactagtac	tacaaaaagg	gaccacattt	ttcaagtatt	720
tctaagtata	aaaaacaaaa	caaaaatctc	ttaggaaaatg	tctagacctc	cattcttgga	780
ttccctttct	ttccttttat	tttaaaaaag	aacagtacct	ctcttttaag	atgctgtctt	840
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gcgttagtg	cattatctat	aaatacactc	acetaaattg	aaagctaaga	aggaaatgta	960
aataataat	atattttat	ttgatgtaat	atggacatct	gcagattcta	ataaacaagg	1020
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gttggtggga	gcattttccag	gcattcttta	agggaaactgt	gacaaacagc	ctcgggcaga	1860
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<210> 231  
 <211> 1035  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1032)  
 <223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (1034)  
 <223> n equals a,t,g, or c

<400> 231  
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 caagagcttg aagaacgccg cagttgcgtg gaagcctgca gagcaaggga agcagcggtt 180  
 gatgccgaat atcagcgaaa tcttcacagg gtggacctcg atattttaac ctttacgata 240  
 gctctgactg cctctgaagt tatcaacctt ctgatagaag aacttggttg cgataagttt 300  
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 accaatcctg caacttgatt ttcagaagtc aagagtatat cgcgataaga cagtgcacag 420  
 gtggaggggg aaaaaagggg gagggggaag cttatcttga aaaagcatca cagaagtaga 480  
 aaaaaatgtc gaaagcatta taactgtaac gttctttgag tttgtgattg atccacattt 540  
 ttcccccctgc attatggaaa atgtctctca gcattgcttt attacaaagt aaaggatggt 600  
 ttataaaaat tgagactgat gaaacatcaa tactagagcc catgaggatg aaagaaatta 660  
 tcaaatagtg ctgaacagaa taagatgtta acgtgagtt attaggactg gaaggctatg 720  
 aaaaagaactt gaaattgtcg gaatatgtgc tctcttcacg tcatattcaa tagaagtttc 780  
 tagtttaaga ttgattttgt gttttcttag gcatttcaag tgacaagcaa agtaaatgta 840  
 tatattatgt gataaatcat gttttcaaga acgtcaaatt tctggacttt tttctttcaa 900  
 tttttaattt ttaaaagttt tttgtatta aaaaatcyat tcacaagcca aaaaatwtwt 960  
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 caaggggggc cngnt 1035

<210> 232  
 <211> 2218  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
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 attactgggt tagaaaaaca agagggaktg cctgcacat tttcttttgt gcttttaaat 180  
 gtttcttaag ttggaacagg tttctcggg cctgttttga ctgattgctg gagtgcattt 240  
 gatagttaaa aattactaat tggttttatt tcccttcaca ctctgcctcc ccacttctcc 300  
 ccccggtact gaaaaataac ctttttagtg tcaggctaga aattgaattg ctgagttttg 360  
 tgtatccttt aaattaaaaa ccacaagtgt ttattgtagt ggttaaaactg tagcatctca 420  
 gcactcgggt ggaagctgcc tatatttctt ccagttttaa ctggggacca tctgtgaaat 480  
 taattttcca tccagacagc tgcgtgagc aaatgaacat aaatgctcgc tggaaattta 540  
 ctaaccagtt tttatattga cctgcagtgt aaaaagcaca ttttaattata aacaatatat 600  
 tcaaaatggg caaattttat tttcaaatgc agttagagc tagattaaaa gcaactcttt 660  
 gccacctact ctgccctttt ggcaaaagtt cctgaacaa agaactcttaa gggtttatta 720  
 agaactcttt attttcttca taccctgttc tctgcagtgc tttctaacag cttctgggtg 780  
 cagattttct tggcctcct tttgcactca gcttattaca ggtaggtagt gcttaagaaa 840  
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 aattttctgc tattgtgttc actacaacag gatagggaca tcagacagcc ccagaaaccc 1020  
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0933767.082201

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<210> 233  
 <211> 2057  
 <212> DNA  
 <213> Homo sapiens

<400> 233						
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<210> 234  
 <211> 2084  
 <212> DNA

09933767 "092201

<213> Homo sapiens

<220>

<221> SITE

<222> (775)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2080)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2083)

<223> n equals a,t,g, or c

<400> 234

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<210> 235

<211> 2143

<212> DNA

0933757 "0922001

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2143

<210> 236  
<211> 1133  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (528)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (552)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1133)  
<223> n equals a,t,g, or c

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ccacacttca cttgaagcct tagaaacctt tcccacccat gcttccagcc ctggcttcat 180  
gttgccattt ctcaccccca gaacaggccg cccgcctgaa gaaactacaa gagcaagaga 240  
aacaacagaa agtggagttt cgtaaaagga tggagaagga ggtgtcagat ttcattcaag 300  
acagtgggca gatcaagaaa aagtttcagc caatgaacaa gatcgagagg agcatactac 360  
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<210> 237  
<211> 1025  
<212> DNA  
<213> Homo sapiens

<400> 237  
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cccaggcctt cctccctctc ccatcagcag cctgttaaca agtgccttgt gagaaaagct 180  
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cttccagact aaagaattaa ggtaacatca atacctaggc ctgagaaata accccatcct 360  
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09933767.089201

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aaaaa						1025

&lt;210&gt; 238

&lt;211&gt; 1400

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

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agaagtgaag	ggtatttgca	aagtaagcta	caaatgacct	ataaatctgt	taacaacagt	300
ccttaatatg	caaagatgaa	aaacaagcat	tactgtctacc	caaagggaa	tggtgtcttg	360
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aaaaaaaaa	aaaaactcga					1400

&lt;210&gt; 239

&lt;211&gt; 1250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

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<210> 240  
 <211> 1307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (651)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1064)  
 <223> n equals a,t,g, or c

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<210> 241  
 <211> 888

09932767 082204

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (830)  
<223> n equals a,t,g, or c

<400> 241  
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<210> 242  
<211> 1811  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1810)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1811)  
<223> n equals a,t,g, or c

<400> 242  
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099327.0004  
T02280" 29/22660





<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2478)

<223> n equals a,t,g, or c

<400> 244

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catctgtgct	gcagaggaac	agccagcaga	agatgggcag	ggtgaaacta	acaagaacag	1620
gacaaaagga	ggatggcaac	agaagagtaa	aggacccaag	aaaactgcta	aatcaaaaaa	1680
aaagaaacct	ttaaaaaaa	aacctacacc	tgtgctatta	ccacagtcaa	agcaacagaa	1740
acaaaagcag	gcaaatggag	tcgttgggaa	tgaagctgca	gtaaagggaag	atgaagaaga	1800
agtttcagat	aagggcagtg	attctgaaga	agaagaaacc	aatagagatt	cccaaagtga	1860
gaaagatgat	ggtagtgaac	gagactctga	tagagagcaa	gatgaaaaac	aaaaaaaaga	1920
tgatgaagca	gagtggcaag	aattacaaca	aagcatacag	cgaaaagaga	gagctctatt	1980
ggaaacccaa	tcaaaaataa	cacatcctgt	gtatagcctt	tactttcctg	aggaaaaaca	2040
agaatggtgg	tggctttaca	ttgcagatag	gaaggagcag	acattaatat	ccatgccata	2100
tcatgtgtgt	acgctgaaag	atacagagga	ggtagagctg	aagtttccctg	caccaggcaa	2160
gcctggaaat	tatcagtata	ctgtgtttct	gagatcagac	tcctatatgg	gtttggatca	2220
gattaaacca	ttggaagttk	ggaagtcat	gaggtgaag	cctgtgccag	aaaatcaccc	2280
acagtgggat	acagcaatag	agggggatga	agaccaggag	gacagtgaag	gctttgaaga	2340
tagctttgag	ggaggaagag	ggagggagga	aggaaggtgg	tggacttaag	gcagttactc	2400
tggaatggga	cccacagtgt	tttgcaccat	attttggcaa	ttttttttgc	ccgtttttng	2460
gaagtgtttt	ccntnaancc	caggaaacct	tacagaacct			2500

<210> 245

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

09375 "00001"

<221> SITE  
 <222> (133)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (867)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1338)  
 <223> n equals a,t,g, or c

<400> 245

cttccggttc	tccgggcagc	tgccactgct	gtagcttctg	ccacctgcc	cgaccgggcc	60
tctccctggc	gtttggteac	ctctgettca	ttctccaccg	cgcttatggg	ccctcttgga	120
gccagcgtgg	cgngcctggc	ggctcccggg	tggtgagaga	gcggtccggg	aacgatgaag	180
gcctcgagct	gtgctgctg	tctcagccac	ctcttggtct	ccgtccctct	cctgctgttg	240
ctgcctgaac	taagcgggyc	cctggmagtc	ctgctgcagg	cagccgaggg	cgcgccagggt	300
yttgggcctc	ctgaccctag	accaggacat	taccgccgct	gccaccgggc	cctwaccctc	360
gcccagcagc	cgggccgtgg	tctggctgaa	gctgcggggg	ccgcggggct	ccgagggagg	420
caatggcagc	aacctgtggg	ccgggcttga	gacggacgat	cacggagggg	aggccggggg	480
argctcggtg	gggtggcgcc	ttgctgtgag	ccccaacctc	ggcgacaagc	ccatgaccga	540
gcgggcccctg	accgtgttga	tggtgggtgag	cggcgcgggtg	ctggtgtact	tcgtgggtcag	600
gacggtcagg	atgagaagaa	gaaaccgaaa	gactaggaga	tatggagttt	tggacactaa	660
catagaaaat	atggaattga	cacctttaga	acaggatgat	gaggatgatg	acaacacgtt	720
gtttgatgcc	aatcatcctc	gaagataaga	atgtgccttt	tgatgaaaga	actttatctt	780
tctacaatga	agagtggaa	ttctatgttt	aaggaataag	aagccactat	atcaatgttg	840
gggggggtatt	taagttacat	atatttnaac	aacctttaat	ttgctgttgc	aataaatacc	900
gtatccctttt	attatatctt	tatatgtata	gaagtactct	gttaatgggc	tcagagatgt	960
tggggataaa	gtatactgta	ataatttatc	tgtttgaaaa	ttactataaa	acgggtgtttt	1020
ctgrtcgggtt	tttgtttcct	gcttaccata	tgattgtaaa	ttgttttatg	tattaatcag	1080
ttaatgctaa	ttatttttgc	tgatgtcata	tgtaaagag	ctataaattc	caacaaccaa	1140
ctggtgtgta	aaaataattt	aaaatyctct	ctactgaaag	gtatttccca	tttttgtggg	1200
gaaaagaagc	caaatttatt	actttgtgtt	gggggttttt	aaatattaag	aaatgtctaa	1260
gttattgttt	gcaaaacaat	aaatatgatt	ttaaattctc	ttaaaaaaaa	aaaaaaaaaac	1320
cccggggggg	ggccccgg					1338

<210> 246  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (651)  
 <223> n equals a,t,g, or c

<400> 246

gaattcggca	cgaggcagct	tgtgctttta	aggaggtgtt	caaagcatgt	ctgagcagag	60
acttttgggc	tctgttttta	ttaatacttt	aaaataattc	atatttaaaa	tatcaratgt	120
ttccataaag	aggaggatgt	ttaaatgcct	ccagactaca	ttccttttta	ttsettgatt	180
ttacctggga	gtccaaagt	caattcccat	aaagcaagcg	ttttatttgt	cactttcaat	240
atacatccga	ttgccatgct	taagatgcaa	tatgggctgc	ggaaataggt	taaccacag	300
gctcccaggc	cccagtgtag	aaggtgagag	attcgtgtaa	aatgattcaa	ataaaaggaa	360
gaccctggcc	gggtgcccga	rtctacgcct	gtaatcccag	cactttggga	ggccgaagcg	420

09933767.00201



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agtggatgac gaggttagga gttggagacc agcctggcca acatcgtgaa accccgtctc 480
tactaaaaat acaaaaatta gccgggcatg gtggcaggca cctgtaatcc tagctagtgtg 540
ggaggctgag gcaggagaat cgtttgaatc tgggagttgg aggttgtcag tgagctgaga 600
tcgcgccaca gcactccagc ctgggtgaca ggggtgagact ctgtctcaaa naga 654

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<210> 247
<211> 1146
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (36)
<223> n equals a,t,g, or c

```

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<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

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<400> 247
aaaaaaaaacc caggggaacn ttggggggccg ctttnnnntc cccctccagg ccattggggga 60
attcttcaag ttaatccctgc tttgctcttg gccaacaggg cttgtagggg ggagagaccc 120
aggatcatca aggggttcga gtgcaagcct cactcccagc cctggcaggc agccctgttc 180
gagaagacgc ggctactctg tggggcgacg ctcatcgccc ccagatggct cctgacagca 240
gcccaactgcc tcaagccccg ctacatagtt cacctggggc agcacaaact ccagaaggag 300
gagggtctgtg agcagacccg gacagccact gagtcttcc cccaccccg cttcaacaac 360
agcctcccca acaaagacca ccgcaatgac atcatgctgg tgaagatggc atcgccagtc 420
tccatcacct gggtgtgctg acccctcacc ctctcctcac gctgtgtcac tgcctggcacc 480
agctgyctca ttccggctg gggcgmacg tccagcccc agttacgcct gcctcacacc 540
ttgsgatgcg ccaacatcac catcattgag caccagaagt gtgagaacgc ctaccccggc 600
aacatcacag acaccatggt gtgtgccagc gtgcaggaag ggggcaagg ctcctgccag 660
ggtgactccg ggggccctct ggtctgtaac cagtctcttc aaggcattat ctectggggc 720
caggatccgt gtgcgatcac ccgaaagcct ggtgtctaca cgaaagtctg caaatatgtg 780
gactggatcc aggagacgat gaagaacaat tagactggac ccaccacca cagcccatca 840
ccctccattt ccacttggtg tttggttccg gtccactctg ttaataagaa accctaagcc 900
aagaccctct acgaacattc tttgggcctc ctggactaca ggagatgctg tcaacttaata 960
atcaacctgg gggtcgaaat cagtgaagac tggattcaaa ttctgccttg aaatattgtg 1020
actctgggaa tgacaacacc tggttgttgc tctgtgtgat cccagcccc aaagacagct 1080
cctggccata tatcaaggtt tcaataaata tttgctaaat gaaaaaraaa aaaaaaaaaa 1140
actcga 1146

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<210> 248
<211> 1443
<212> DNA
<213> Homo sapiens

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0993767.032204

<220>  
 <221> SITE  
 <222> (776)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (907)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1288)  
 <223> n equals a,t,g, or c

<400> 248  
 ataaactgaa atagggtcatg caaatataaa atattatattt taaattattt gtcataagaa 60  
 acgatgggtgg ccatatttttg ctttaataat ggaaaaaatg tggtttagcat tctktggaag 120  
 gtgggtcatca gatagtagac attttctagg atttatttct acctgcataat gtggaaatgt 180  
 gtactacttt agatttatwt aatggcagct aactcagagg catcaaatg tgctaattggt 240  
 gtaatatggc ctttgtcttg ctgtyctggt ttgtargcct tcaatcaagc argggcaggg 300  
 ccgtacagtg aacttgtcct ttgscagacg ccagcgtctg ccctgaccc cgtctccact 360  
 ctctgtgtcc tggaggagga gccccttgat gcytacctg attcaccttc tgcgtgcctt 420  
 gtactgaact gggaagagcc gtgcaataac ggatctgaaa tccttgctta caccattgat 480  
 ctaggagaca ctagcattac cgtgggcaac accaccatgc atgttatgaa agatctcctt 540  
 ccagaaacca cctaccggtg agtgcaaggg agtagaaatc tgcacagca catcagcact 600  
 tggggatcta agtaaacctc tcggggaaaa tgaccaagtg gatgtcatct ccagctgtt 660  
 tctaagagcc cagatgtcca gagtattgtc tcaccttgat ccctcaggcc agaagacctg 720  
 tgaaaaagcc acaactggttc agggactcac tggacggttt tgtgtccact ytaacntgca 780  
 ccgtctctac ccagagtggt actcaratcc tcaagtcac ctctgaacat tgrrgtcaga 840  
 aattataaaa gggctttggc aatatgttag cccaagaatt tggcttcttc cagaaattgt 900  
 gccgaentta acagtggcctt aaatgatggt aaaactttta agatttctaa aaggrrtgga 960  
 ttggagatac gtlgactttt attaaacmac ctatagttgt ttaatgaytt ctaaaaaaat 1020  
 atctggagct caggggttca actgagggaa cacatgttga gratcattgt ttactaatta 1080  
 aatgccaggt aaccggttga aattatcaaa aacatcttcc acgtaccaga aagcacctca 1140  
 gaggatagtt ctgttatgga gaagatgaaa tgggttagta gtgtaggaaac tatggaaagg 1200  
 tgagcttaga tttggatagt aaaacctcaa gacctattt aaaaagtatt ttatgaatgc 1260  
 agcataaata atttaattca gtgttaanat gccaaaggcta gtatattgag ctgaatgtga 1320  
 aaagaaactc acattgggag aatgccacct ttctcttata agatagcttt gaagatacca 1380  
 ttttagacag atggaaattg aatagcttta gaaaaggcaa atgtttgatc ttggggaaaa 1440  
 aaa 1443

<210> 249  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals stop translation

<400> 249  
 Met Leu Ser Thr Gly Ile Glu Val Ala Arg Pro Pro Ala Thr Leu Leu  
 1 5 10 15

093757 03204  
 10220 29455

Gly Leu Met Phe Val Leu Thr Gly Met Pro Arg Gly Leu Arg Xaa  
           20                          25                          30

<210> 250

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals stop translation

<400> 250

Met Asn Val Val Ile Val Ile Leu Phe Ser Phe Asp Ser Val Gly  
   1                  5                  10                  15

Thr Met Phe Ser Cys Asn Arg Ile Pro Lys Ile Thr Val Leu Asn Lys  
           20                  25                  30

Leu Lys Phe Xaa Cys Glu Val Leu Leu Arg Ile Gln Thr Ile Gln Gly  
           35                  40                  45

Phe Tyr Arg Cys Thr Arg Ile Ser Arg Tyr Lys Gly Ile Phe Pro Asp  
   50                  55                  60

Phe Cys Gln Ser Gln Cys Met Gly Cys Asn Pro Glu Ser Xaa Met Ala  
   65                  70                  75                  80

Val Pro Ala Leu Val Thr Pro Ile Leu Ala His Arg Lys Lys Glu Lys  
           85                  90                  95

Gly Met Cys Leu Phe Thr Leu Ile Ile Ala Pro Thr Arg Cys Thr His  
           100                  105                  110

Tyr Phe Cys Xaa  
           115

<210> 251

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

09033767 "000001"

<223> Xaa equals stop translation

<400> 251

Met Ser Ser Ala Lys Ile Val Arg Gln Arg Gly Ala Val Pro Thr Tyr  
1 5 10 15

Tyr Thr Thr Glu Ala Gly Glu Ile Ile Phe Leu Val Leu Asn Trp Ser  
20 25 30

Leu Ser Ile Leu His Ile Val Asp Val Leu Cys Ser Lys Pro Glu Lys  
35 40 45

Ser Val Thr Glu Asp Ala Ala Ser Gly Leu Ser Gln Arg Met Thr Ala  
50 55 60

Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys Pro Ile Leu  
65 70 75 80

Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His Ser Phe Ile  
85 90 95

His Ser Ser Asn Ile Cys Xaa  
100

<210> 252

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 252

Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg  
1 5 10 15

Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr  
20 25 30

Ser Pro Met Gly Ala Val Gly Thr Glu Phe  
35 40

<210> 253

<211> 37

0993757 "083201

<212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation  
  
 <400> 253  
 Met Ile Ile Leu Leu Leu Phe Met Leu Leu Asn Asn Val Val Leu Val  
   1                  5                  10                  15  
  
 Gln Glu Asp Asn Cys Gln Arg Lys Asn Thr Val Gln Glu Arg Arg Xaa  
           20                  25                  30  
  
 Trp Ser Gln Trp Xaa  
           35  
  
 <210> 254  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals stop translation  
  
 <400> 254  
 Met Ala Ala Xaa Pro Pro Gly Cys Thr Pro Pro Xaa Leu Leu Asp Ile  
   1                  5                  10                  15  
  
 Ser Trp Leu Thr Glu Ser Leu Gly Ala Gly Gln Pro Val Pro Val Glu  
           20                  25                  30  
  
 Cys Arg His Arg Leu Glu Val Ala Gly Pro Arg Lys Gly Pro Leu Ser  
           35                  40                  45  
  
 Pro Ala Trp Met Pro Ala Tyr Ala Cys Gln Arg Pro Thr Pro Leu Thr  
   50                  55                  60  
  
 His His Asn Thr Gly Leu Ser Glu Leu Leu Glu His Gly Val Cys Glu

05933767 "082201"

<400> 256

Met Ser Thr Phe Gln Leu Leu Leu Leu Ile Leu Ala Gln Ser Thr Tyr  
 1 5 10 15  
 Lys Ile Lys Ser Lys Pro Leu His Met Thr Asn His Thr Leu Leu Asn  
 20 25 30  
 Ser Pro Gly Leu Asn Pro Ser Ser Pro Thr Leu Asn Phe Lys Thr Gln  
 35 40 45  
 Gln His Glu Ser Val Ser Tyr Ala Cys Cys His Met Arg Ser Leu His  
 50 55 60  
 His Ala Phe Ala Xaa  
 65

<210> 257  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 257  
 Met Val Ser Val Val Leu Ile Phe Ser Phe Leu Ser Leu Thr Ile Ser  
 1 5 10 15  
 Thr Thr Ala Ser Ala Tyr Asn Gly Asn Asp Thr Gln Gly Trp Asn Asp  
 20 25 30  
 Lys Phe His Xaa Xaa Ser Val Lys Thr Gln Thr Xaa  
 35 40

<210> 258  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 258

102280" 292E660

Met Ile Ser Asp Ala Gly Ala Gly Phe Gly Val Phe Leu Leu Val Pro  
 1 5 10 15  
 Arg Ala Gly His Cys Trp Gly Ala Gly Lys Pro Leu Pro Ser Cys Pro  
 20 25 30  
 Ser Val Ala Ser Ile Pro Ser Trp Val Leu Pro Ser Phe Leu Glu Arg  
 35 40 45  
 Gly Arg Xaa  
 50

<210> 259  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 259  
 Met Val Gln Thr Ile Gln Asp Phe Leu Ser Leu Phe Ser Thr Pro Ile  
 1 5 10 15  
 Phe Leu Leu Leu Leu Met Phe Glu Thr Leu Ser Leu Ala Pro Ala Trp  
 20 25 30  
 Leu Lys Pro Leu Arg Val Thr Ser His Ser Xaa  
 35 40

<210> 260  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals stop translation

<400> 260  
 Met Ile Leu Met Pro Gly Leu Gly Thr Ser Arg Gln Arg Ser Val Pro  
 1 5 10 15  
 Phe Val Pro Thr Leu Asn Ala Ser Thr Pro Gly Ala Met Thr Gly Pro  
 20 25 30  
 Thr Ala Thr Leu Thr Ser Cys Gln Trp Thr Thr Ala Cys Arg Val Ser  
 35 40 45  
 Trp Ala Asn Gly Trp Thr Ser Leu Arg Thr Phe Arg Xaa  
 50 55 60

09933767 "082201



<210> 261  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals stop translation

<400> 261  
 Met Ser His His Ala Gln Pro Arg Phe Leu Leu Ile Thr Met Leu Leu  
           1                  5                  10                  15  
 Gln Glu Ala Lys Pro Val Ser Asn Ile Pro His Leu Leu Glu Ser Trp  
                   20                  25                  30  
 Tyr Phe Gly Xaa  
                   35

<210> 262  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 262  
 Met Asn Ser Leu Phe Trp Met Ile Leu Leu Pro Val Ser Gln Asp Gln  
           1                  5                  10                  15  
 Val Val Glu Gly Leu Gln Gly Gly Phe Ser Gln Ile His Met Arg Ile  
                   20                  25                  30  
 Leu Arg Lys His Leu Xaa  
                   35

<210> 263  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals stop translation

<400> 263

09933767 "032201

Met Ser Arg Ser Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala  
 1 5 10 15

Ala Ser Ile Tyr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala  
 20 25 30

Leu His Gln Gly Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile  
 35 40 45

Leu Leu Lys Leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg  
 50 55 60

Met Gln Asp Leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala  
 65 70 75 80

Trp Val Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr  
 85 90 95

Ile Phe Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu  
 100 105 110

Asn Gly Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala  
 115 120 125

Glu Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu  
 130 135 140

Thr Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro  
 145 150 155 160

Glu Val Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser  
 165 170 175

His Pro Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg  
 180 185 190

Leu Val Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser  
 195 200 205

Gly Pro Xaa  
 210

&lt;210&gt; 264

&lt;211&gt; 548

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (548)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 264

Met Glu Asp Ser Glu Ala Leu Gly Phe Glu His Met Gly Leu Asp Pro  
 1 5 10 15

Arg Leu Leu Gln Ala Val Thr Asp Leu Gly Trp Ser Arg Pro Thr Leu

00933767.082201

20					25					30					
Ile	Gln	Glu	Lys	Ala	Ile	Pro	Leu	Ala	Leu	Glu	Gly	Lys	Asp	Leu	Leu
		35					40					45			
Ala	Arg	Ala	Arg	Thr	Gly	Ser	Gly	Lys	Thr	Ala	Ala	Tyr	Ala	Ile	Pro
	50					55					60				
Met	Leu	Gln	Leu	Leu	Leu	His	Arg	Lys	Ala	Thr	Gly	Pro	Val	Val	Glu
	65					70					75				80
Gln	Ala	Val	Arg	Gly	Leu	Val	Leu	Val	Pro	Thr	Lys	Glu	Leu	Ala	Arg
				85					90					95	
Gln	Ala	Gln	Ser	Met	Ile	Gln	Gln	Leu	Ala	Thr	Tyr	Cys	Ala	Arg	Asp
			100					105					110		
Val	Arg	Val	Ala	Asn	Val	Ser	Ala	Ala	Glu	Asp	Ser	Val	Ser	Gln	Arg
			115				120					125			
Ala	Val	Leu	Met	Glu	Lys	Pro	Asp	Val	Val	Val	Gly	Thr	Pro	Ser	Arg
	130					135					140				
Ile	Leu	Ser	His	Leu	Gln	Gln	Asp	Ser	Leu	Lys	Leu	Arg	Asp	Ser	Leu
	145					150					155				160
Glu	Leu	Leu	Val	Val	Asp	Glu	Ala	Asp	Leu	Leu	Phe	Ser	Phe	Gly	Phe
				165					170					175	
Glu	Glu	Glu	Leu	Lys	Ser	Leu	Leu	Cys	His	Leu	Pro	Arg	Ile	Tyr	Gln
			180					185					190		
Ala	Phe	Leu	Met	Ser	Ala	Thr	Phe	Asn	Glu	Asp	Val	Gln	Ala	Leu	Lys
		195					200					205			
Glu	Leu	Ile	Leu	His	Asn	Pro	Val	Thr	Leu	Lys	Leu	Gln	Glu	Ser	Gln
	210					215					220				
Leu	Pro	Gly	Pro	Asp	Gln	Leu	Gln	Gln	Phe	Gln	Val	Val	Cys	Glu	Thr
	225					230					235				240
Glu	Glu	Asp	Lys	Phe	Leu	Leu	Leu	Tyr	Ala	Leu	Leu	Lys	Leu	Ser	Leu
				245					250					255	
Ile	Arg	Gly	Lys	Ser	Leu	Leu	Phe	Val	Asn	Thr	Leu	Glu	Arg	Ser	Tyr
			260					265					270		
Arg	Leu	Arg	Leu	Phe	Leu	Glu	Gln	Phe	Ser	Ile	Pro	Thr	Cys	Val	Leu
		275					280					285			
Asn	Gly	Glu	Leu	Pro	Leu	Arg	Ser	Arg	Cys	His	Ile	Ile	Ser	Gln	Phe
	290					295					300				
Asn	Gln	Gly	Phe	Tyr	Asp	Cys	Val	Ile	Ala	Thr	Asp	Ala	Glu	Val	Leu
	305					310					315				320
Gly	Ala	Pro	Val	Lys	Gly	Lys	Arg	Arg	Gly	Arg	Gly	Pro	Lys	Gly	Asp
				325					330					335	

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Arg Asn Ser Thr Pro Asp Glu Pro Asp Val His Phe Ser Lys Lys Phe  
35 40 45

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<210> 266
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals stop translation

<400> 266

Leu Leu Tyr Leu Leu Lys Val Xaa Val Ile Phe Val Phe Ser Ser Ser  
1 5 10 15

Lys Gly Val Thr Leu Val Ser Met Asn Leu Thr Ser Phe Phe Val Ser  
20 25 30

Ser Val Leu Ala Cys Phe Ser Xaa  
35 40

<210> 267

<211> 594

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 267

Met Pro Ala Ser Ser Leu Glu Ser Arg Ser Phe Leu Leu Ala Lys Lys  
1 5 10 15

Ser Gly Glu Asn Val Ala Lys Phe Ile Ile Asn Ser Tyr Pro Lys Tyr  
20 25 30

Phe Gln Lys Asp Ile Ala Glu Pro His Ile Pro Cys Leu Met Pro Glu  
35 40 45

Tyr Phe Glu Pro Gln Ile Lys Asp Ile Ser Glu Ala Ala Leu Lys Glu  
50 55 60

Arg Ile Glu Leu Arg Lys Val Lys Ala Ser Val Asp Met Phe Asp Gln  
65 70 75 80

Leu Leu Gln Ala Gly Thr Thr Val Ser Leu Glu Thr Thr Asn Ser Leu  
85 90 95

Leu Asp Xaa Leu Cys Tyr Tyr Gly Asp Gln Glu Pro Ser Thr Asp Tyr  
100 105 110

His Phe Gln Gln Thr Gly Gln Ser Glu Ala Leu Glu Glu Glu Asn Asp  
115 120 125

Glu Thr Ser Arg Arg Lys Ala Gly His Gln Phe Gly Val Thr Trp Arg  
130 135 140

Ala Lys Asn Asn Ala Glu Arg Ile Phe Ser Leu Met Pro Glu Lys Asn  
145 150 155 160

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Glu His Ser Tyr Cys Thr Met Ile Arg Gly Met Val Lys His Arg Ala  
 165 170 175  
 Tyr Glu Gln Ala Leu Asn Leu Tyr Thr Glu Leu Leu Asn Asn Arg Leu  
 180 185 190  
 His Ala Asp Val Tyr Thr Phe Asn Ala Leu Ile Glu Ala Thr Val Cys  
 195 200 205  
 Ala Ile Asn Glu Lys Phe Glu Glu Lys Trp Ser Lys Ile Leu Glu Leu  
 210 215 220  
 Leu Arg His Met Val Ala Gln Lys Val Lys Pro Asn Leu Gln Thr Phe  
 225 230 235 240  
 Asn Thr Ile Leu Lys Cys Leu Arg Arg Phe His Val Phe Ala Arg Ser  
 245 250 255  
 Pro Ala Leu Gln Val Leu Arg Glu Met Lys Ala Ile Gly Ile Glu Pro  
 260 265 270  
 Ser Leu Ala Thr Tyr His His Ile Ile Arg Leu Phe Asp Gln Pro Gly  
 275 280 285  
 Asp Pro Leu Lys Arg Ser Ser Phe Ile Ile Tyr Asp Ile Met Asn Glu  
 290 295 300  
 Leu Met Gly Lys Arg Phe Ser Pro Lys Asp Pro Asp Asp Asp Lys Phe  
 305 310 315 320  
 Phe Gln Ser Ala Met Ser Ile Cys Ser Ser Leu Arg Asp Leu Glu Leu  
 325 330 335  
 Ala Tyr Gln Val His Gly Leu Leu Lys Thr Gly Asp Asn Trp Lys Phe  
 340 345 350  
 Ile Gly Pro Asp Gln His Arg Asn Phe Tyr Tyr Ser Lys Phe Phe Asp  
 355 360 365  
 Leu Ile Cys Leu Met Glu Gln Ile Asp Val Thr Leu Lys Trp Tyr Glu  
 370 375 380  
 Asp Leu Ile Pro Ser Ala Tyr Phe Pro His Ser Gln Thr Met Ile His  
 385 390 395 400  
 Leu Leu Gln Ala Leu Asp Val Ala Asn Arg Leu Glu Val Ile Pro Lys  
 405 410 415  
 Ile Trp Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu  
 420 425 430  
 Arg Glu Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu  
 435 440 445  
 Leu Gln Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr  
 450 455 460

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Glu Ser Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser  
 465 470 475 480  
 Leu Asn Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu  
 485 490 495  
 Ala Trp Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg  
 500 505 510  
 Ser Glu Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser  
 515 520 525  
 Pro Ser Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu  
 530 535 540  
 Pro Ile Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile  
 545 550 555 560  
 Asn Gln Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser  
 565 570 575  
 Asp Ser Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu  
 580 585 590  
 Gly Lys

<210> 268  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals stop translation

<400> 268  
 Met Lys Leu Asn Leu Cys Ile Pro Asn Trp Ala Arg Cys Pro Leu Leu  
 1 5 10 15  
 Leu Leu Phe Pro Gln Leu Leu Pro Phe Gln Gly Glu Asp Asp Asp Pro  
 20 25 30  
 Leu Lys Ala Lys Ala Ala Asn Leu Val Glu Ala Val Pro Trp Gly Ile  
 35 40 45  
 Lys Ala Pro Ser Phe Gln Val Thr Cys Leu Val Arg Val Gln Leu Gln  
 50 55 60  
 Ser Cys Thr Pro Ser Arg Pro Ser Thr Leu Leu Ala Thr Ser Gln Ser  
 65 70 75 80  
 Pro Gly Arg Ile Ser Cys Tyr Ser Pro Leu Ser His Leu Pro Pro Val  
 85 90 95  
 Thr Thr Ser Ile Gln Pro Ser Pro Val Met Val Pro Phe Gln Tyr Gln

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110

Gln Gln Xaa  
130

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<210> 269
<211> 21
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (21)
<223> Xaa equals stop translation
```

<400> 269  
Met Arg Tyr His Ala Gln Leu Ile Phe Cys Ile Phe Cys Xaa Phe Val  
1 5 10 15

Phe Val Xaa Lys Xaa  
20

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<210> 270
<211> 159
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>

<221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 270  
 Met Thr Gly Thr Tyr Ser Gly Gln Phe Val Met Glu Gly Phe Leu Asn  
   1                  5                  10                  15  
 Leu Lys Trp Ser Arg Phe Ala Arg Val Val Leu Thr Arg Ser Ile Ala  
                   20                  25                  30  
 Ile Ile Pro Thr Leu Leu Val Ala Val Phe Gln Asp Val Glu His Leu  
           35                  40                  45  
 Thr Gly Met Asn Asp Phe Leu Asn Val Leu Gln Ser Leu Gln Leu Pro  
       50                  55                  60  
 Phe Ala Leu Ile Pro Ile Leu Thr Phe Thr Ser Leu Arg Pro Val Met  
   65                  70                  75                  80  
 Ser Asp Phe Ala Asn Gly Leu Gly Trp Arg Ile Ala Gly Gly Ile Trp  
                   85                  90                  95  
 Ser Tyr His Leu Phe His His Met Tyr Phe Val Val Xaa Tyr Val Arg  
           100                  105                  110  
 Asp Leu Arg His Val Xaa Leu Tyr Val Xaa Ala Ala Val Val Xaa Arg  
       115                  120                  125  
 Gly Leu Ser Gly Leu Cys Val Leu Leu Gly Leu Ala Met Phe Asp Cys  
       130                  135                  140  
 Thr Gly His Val Leu Pro Gly Leu Trp Ala Tyr Gly Lys His Leu  
   145                  150                  155  
  
 <210> 271  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (219)  
 <223> Xaa equals stop translation  
  
 <400> 271  
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
   1                  5                  10                  15  
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
           20                  25                  30  
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
       35                  40                  45  
 Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly  
       50                  55                  60

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<400> 272
Met Trp Val Ile Arg Val Phe Gln Lys Thr Phe Leu Phe Phe Val Leu
 1          5          10         15
Phe Trp Ser Val His Cys Ile Ser Asp Lys Phe Gly Cys Leu Trp His
          20          25          30

```

Leu Xaa  
50

```
<210> 273
<211> 122
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals stop translation
```

<400> 273  
Met Pro Ser Gln Thr Glu Xaa Phe Ala Ala Cys Gly Gly His Ser Leu  
1 5 10 15

Leu Leu Val Xaa Leu Pro Leu Gly Leu Pro Phe Cys Pro Arg Ala Ala  
20 25 30

Leu Cys Asp Leu Pro Phe Ser Leu Pro Ser Phe Pro Gly Gln Ala Arg  
35 40 45

Arg Gly Gly Ala Glu Lys Gln Gly Ala Glu Gly Arg Gly Leu Gln Val  
50 55 60

Lys Pro Arg Gly Gln Arg Thr Phe Gln Val Ser Arg Thr Ala Pro Ala  
65 70 75 80

Ala Pro Arg Ser Arg Gln Pro Arg Pro Pro Ala Ala Leu Pro Ala Leu  
85 90 95

Gly Phe Gly Gly Arg Gly Val Ala Lys Gly Arg Phe Leu Cys Phe Trp  
100 105 110

Cys Leu Tyr Met Leu Arg Ile Asp Gln Xaa  
115 120

```
<210> 274
<211> 88
<212> PRT
<213> Homo sapiens
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```
<220>
<221> SITE
<222> (29)
<223> Xaa equals stop translation
```

&lt;400&gt; 276

Met Leu Leu Asp Pro Phe Ile Leu Leu Phe Cys Leu Phe Ser Thr Ala  
 1 5 10 15

Ala Gln Ser Cys Leu Glu Phe Ile Tyr Ile Gln Phe Xaa  
 20 25

&lt;210&gt; 277

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 277

Met Lys Phe Leu Ser Ile Leu Leu Asp Asp Asn Asn Phe Xaa Leu Met  
 1 5 10 15

Leu Met Leu Ala Pro Phe Gly Cys Leu Ala Phe Glu Arg Ser Met Lys  
 20 25 30

Met Arg Asn Gly Ala Leu Gly Leu Glu Glu Val Xaa  
 35 40

&lt;210&gt; 278

&lt;211&gt; 363

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (307)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (363)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 278

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
 20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg

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35					40					45					
Gly	Leu	Val	Val	Thr	Asp	Leu	Lys	Ala	Glu	Ser	Val	Val	Leu	Glu	His
50						55					60				
Arg	Ser	Tyr	Cys	Ser	Ala	Lys	Ala	Arg	Asp	Arg	His	Phe	Ala	Gly	Asp
65					70					75					80
Val	Leu	Gly	Tyr	Val	Thr	Pro	Trp	Asn	Ser	His	Gly	Tyr	Asp	Val	Thr
				85					90					95	
Lys	Val	Phe	Gly	Ser	Lys	Phe	Thr	Gln	Ile	Ser	Pro	Val	Trp	Leu	Gln
			100					105					110		
Leu	Lys	Arg	Arg	Gly	Arg	Glu	Met	Phe	Glu	Val	Thr	Gly	Leu	His	Asp
		115					120					125			
Val	Asp	Gln	Gly	Trp	Met	Arg	Ala	Val	Arg	Lys	His	Ala	Lys	Gly	Leu
	130					135					140				
His	Ile	Val	Pro	Arg	Leu	Phe	Glu	Asp	Trp	Thr	Tyr	Asp	Asp	Phe	
145				150					155					160	
Arg	Asn	Val	Leu	Asp	Ser	Glu	Asp	Glu	Ile	Glu	Glu	Leu	Ser	Lys	Thr
				165					170					175	
Val	Val	Gln	Val	Ala	Lys	Asn	Gln	His	Phe	Asp	Gly	Phe	Val	Val	Glu
			180					185					190		
Val	Trp	Asn	Gln	Leu	Leu	Ser	Gln	Lys	Arg	Val	Thr	Asp	Gln	Leu	Gly
		195					200					205			
Met	Phe	Thr	His	Lys	Glu	Phe	Glu	Gln	Leu	Ala	Pro	Val	Leu	Asp	Gly
	210					215					220				
Phe	Ser	Leu	Met	Thr	Tyr	Asp	Tyr	Ser	Thr	Ala	His	Gln	Pro	Gly	Pro
225				230						235					240
Asn	Ala	Pro	Leu	Ser	Trp	Val	Arg	Ala	Cys	Val	Gln	Val	Leu	Asp	Pro
				245					250					255	
Lys	Ser	Lys	Trp	Arg	Ser	Lys	Ile	Leu	Leu	Gly	Leu	Asn	Phe	Tyr	Gly
			260					265					270		
Met	Asp	Tyr	Ala	Thr	Ser	Lys	Asp	Ala	Arg	Glu	Pro	Val	Val	Gly	Ala
	275						280					285			
Arg	Tyr	Ile	Gln	Thr	Leu	Lys	Asp	His	Arg	Pro	Arg	Met	Val	Trp	Asp
	290					295					300				
Ser	Gln	Xaa	Ser	Glu	His	Phe	Phe	Glu	Tyr	Lys	Lys	Ser	Arg	Ser	Gly
305				310						315					320
Arg	His	Val	Val	Phe	Tyr	Pro	Thr	Leu	Lys	Ser	Leu	Gln	Val	Arg	Leu
				325					330					335	
Glu	Leu	Ala	Arg	Glu	Leu	Gly	Val	Gly	Val	Ser	Ile	Trp	Glu	Leu	Gly
		340						345					350		

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```
<210> 279
<211> 128
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals stop translation
```

```

<400> 279
Leu Pro Thr Lys Ile Leu Val Lys Pro Asp Arg Thr Phe Glu Ile Lys
  1             5             10             15

Ile Gly Gln Pro Thr Val Ser Tyr Phe Leu Lys Ala Ala Ala Gly Ile
      20             25             30

Glu Lys Gly Ala Arg Gln Thr Gly Lys Glu Val Ala Gly Leu Val Thr
      35             40             45

Leu Lys His Val Tyr Glu Ile Ala Arg Ile Lys Ala Gln Asp Glu Ala
  50             55             60

Phe Ala Leu Gln Asp Val Pro Leu Ser Ser Val Val Arg Ser Ile Ile
  65             70             75             80

Gly Ser Ala Arg Ser Leu Gly Ile Arg Val Val Lys Asp Leu Ser Ser
      85             90             95

Glu Glu Leu Ala Ala Phe Gln Lys Glu Arg Ala Ile Phe Leu Ala Ala
      100             105             110

Gln Lys Glu Ala Asp Leu Ala Ala Gln Glu Glu Ala Ala Lys Lys Xaa
      115             120             125

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```
<210> 280
<211> 54
<212> PRT
<213> Homo sapiens
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```
<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals stop translation
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<400> 280  
Met Leu Leu Gln Ile His Pro Leu Leu Pro Ser Pro Thr Ile Pro His  
1 5 10 15



Ile Leu Leu Leu Phe Leu Tyr Pro Thr Phe Ser Ile Leu Glu His Ser  
20 25 30

Cys Ser Tyr Cys Ile Glu Tyr Leu Trp Val Cys Leu Leu Phe Cys Leu  
35 40 45

Ser Leu Trp Phe Leu Xaa  
50

<210> 281

<211> 29

<212> PRT

<213> Homo sapiens

<400> 281

Met Cys Leu Trp Cys Cys Gly Asp Val Cys Ser Gly Leu Ser Ser Leu  
1 5 10 15

Leu Ser Leu Cys Val Cys Cys Val Val Leu Ala Val Cys  
20 25

<210> 282

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 282

Glu Gly Leu Arg Leu Leu Ser Leu Pro Ala Ala Leu Pro Arg Ser  
1 5 10 15

Cys Cys His Pro Arg Trp Leu Pro Val Xaa  
20 25

<210> 283

<211> 221

<212> PRT

<213> Homo sapiens

<400> 283

Met Phe His Gly Ile Pro Ala Thr Pro Gly Ile Gly Ala Pro Gly Asn  
1 5 10 15

Lys Pro Glu Leu Tyr Glu Glu Val Lys Leu Tyr Lys Asn Ala Arg Glu  
20 25 30

Arg Glu Lys Tyr Asp Asn Met Ala Glu Leu Phe Ala Val Val Lys Thr  
35 40 45

Met Gln Ala Leu Glu Lys Ala Tyr Ile Lys Asp Cys Val Ser Pro Ser  
50 55 60

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Glu Tyr Thr Ala Ala Cys Ser Arg Leu Leu Val Gln Tyr Lys Ala Ala  
 65 70 75 80  
 Phe Arg Gln Val Gln Gly Ser Glu Ile Ser Ser Ile Asp Glu Phe Cys  
 85 90 95  
 Arg Lys Phe Arg Leu Asp Cys Pro Leu Ala Met Glu Arg Ile Lys Glu  
 100 105 110  
 Asp Arg Pro Ile Thr Ile Lys Asp Asp Lys Gly Asn Leu Asn Arg Cys  
 115 120 125  
 Ile Ala Asp Val Val Ser Leu Phe Ile Thr Val Met Asp Lys Leu Arg  
 130 135 140  
 Leu Glu Ile Arg Ala Met Asp Glu Ile Gln Pro Asp Leu Arg Glu Leu  
 145 150 155 160  
 Met Glu Thr Met His Arg Met Ser His Leu Pro Pro Asp Phe Glu Gly  
 165 170 175  
 Arg Gln Thr Val Ser Gln Trp Leu Gln Thr Leu Ser Gly Met Ser Ala  
 180 185 190  
 Ser Asp Glu Leu Asp Asp Ser Gln Val Arg Gln Met Leu Phe Asp Leu  
 195 200 205  
 Glu Ser Ala Tyr Asn Ala Phe Asn Arg Phe Leu His Ala  
 210 215 220

<210> 284

<211> 40

<212> PRT

<213> Homo sapiens

<400> 284

Met Gly Asn Ser Gln Val Pro Gln Ser Ser Asp Phe Ser Ser Ile Leu  
 1 5 10 15

Leu Thr Thr Ser Leu Gly Thr Tyr Ser Leu Leu Leu Gly Thr Ala Gly  
 20 25 30

Ala Arg Thr Gly Ser Pro Met Ser  
 35 40

<210> 285

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals stop translation

<400> 285  
 Met Gln Ala Pro Phe Xaa His Phe Ser Phe Arg Met Phe Ser Asn Leu  
           1                  5                  10                  15  
 Tyr Cys Phe Ser Asp Phe Gln Pro Asn Ile Ser Pro Cys Pro Leu Cys  
                   20                  25                  30  
 His Cys Ile Leu Pro Xaa His His His Val Phe Leu Leu Leu Ala Val  
           35                  40                  45

Xaa

<210> 286  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals stop translation

<400> 286  
 Met Lys Leu Val Thr Met Phe Asp Lys Leu Ser Arg Asn Arg Val Ile  
           1                  5                  10                  15  
 Gln Pro Met Gly Met Ser Pro Arg Gly His Leu Thr Ser Leu Gln Asp  
                   20                  25                  30  
 Ala Met Cys Glu Thr Met Glu Gln Gln Leu Ser Ser Asp Pro Asp Ser  
           35                  40                  45  
 Asp Pro Asp Xaa  
           50

<210> 287  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals stop translation

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&lt;400&gt; 287

Met Ala Val Gly Glu Ala Val Phe Val Pro Leu Gln His Pro Pro Leu  
 1 5 10 15

Leu His Gly Ser Pro Ile Pro Lys Leu Leu Pro Gly Pro Leu Leu Xaa  
 20 25 30

&lt;210&gt; 288

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 288

Met Asn Gly Cys His Arg Arg Lys Arg Leu His Leu Cys Lys Thr Ile  
 1 5 10 15

Tyr Leu Leu Trp Phe Val Phe Ser Phe Leu Leu Ser Asn Glu Val Val  
 20 25 30

Ser Ser His Trp His Ile Leu Arg Ala Val Gln Ile Ile Cys Thr Leu  
 35 40 45

Phe His Arg Xaa Ile Ser Ala Phe Xaa  
 50 55

&lt;210&gt; 289

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 289

Met Gly Trp Val Ser Ser Pro His Val Lys Arg Arg Glu Cys Val Leu  
 1 5 10 15

Lys Lys Pro Phe Phe Xaa  
 20

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<210> 290  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 290  
 Met Phe Asn Phe Phe Lys Asn Pro Leu Leu Thr Cys Leu Phe Ile Ser  
 1 5 10 15  
 Cys Tyr Leu Tyr Leu Ser Leu Leu Val Asn Lys Val Leu Phe Ala Glu  
 20 25 30  
 Glu Gly Leu Cys Cys Thr Tyr Cys Thr Thr Ser Asn Thr Gly Glu Gly  
 35 40 45  
 Gly Val Xaa  
 50

<210> 291  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 291  
 Met Val Tyr Ile Tyr His Ile Phe Phe Ile His Ser Leu Leu Asp Gly  
 1 5 10 15  
 Gln Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala Ala Pro  
 20 25 30  
 Asp Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser Lys Ser  
 35 40 45  
 Cys Ser Phe Tyr Leu Gln Asn Val Ser Cys Ile His Ser Ser Leu Ser  
 50 55 60  
 Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met Glu Glu Cys  
 65 70 75 80  
 Asn Asn Trp Leu Thr Gly Leu Phe Leu His Phe Lys Ile Lys Arg Cys  
 85 90 95  
 Asp Arg

<210> 292  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens  
 <220>

09933767.082201

<221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals stop translation

<400> 292  
 Met Leu Cys Thr Ile Leu Thr Val Val Ile Ile Ile Ala Ala Gln Thr  
           1                  5                  10                  15  
 Thr Arg Thr Thr Gly Ile Pro Lys Asn Ala Pro Gly Pro Ala Pro Leu  
                   20                  25                  30  
 Cys Ala Pro Arg Ser Pro Arg Leu Phe Leu Gln Xaa Tyr Arg Gly Pro  
           35                  40                  45  
 Asn Gly Arg Pro Ala His Pro Phe Leu Gly Pro Ser Asp Leu Asp Thr  
           50                  55                  60  
 Ser Xaa  
       65

<210> 293  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (187)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (229)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (232)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (235)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

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<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (257)
<223> Xaa equals stop translation

<400> 293
Met Leu Gly Ala Lys Pro His Trp Leu Pro Gly Pro Leu His Ser Pro
  1              5              10              15
Gly Leu Pro Leu Val Leu Val Leu Leu Ala Leu Gly Ala Gly Trp Ala
      20              25              30
Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val
      35              40              45
Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu
      50              55              60
Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His
  65              70              75              80
His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile
      85              90              95
Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala
      100              105              110
Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe
      115              120              125
His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met
  130              135              140
Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val
  145              150              155              160
Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly
      165              170              175
Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Xaa Ser Thr Gly Trp Leu
      180              185              190
Glu Ile Leu Lys Phe Leu Trp Leu Pro His Leu Pro Ser Leu Lys Asp
      195              200              205
Pro Ser Leu Ser Ser Thr Arg Ile Gln Pro Leu Thr Thr Phe Phe Cys
  210              215              220
Pro Leu Leu Pro Xaa Lys Gln Xaa Lys Gln Xaa Xaa Xaa Ser Leu Trp
  225              230              235              240

```

Leu Leu Ser His Leu Phe Ala Trp Glu Pro Val Pro Asn Thr Gln Val  
                   245                                  250                                  255

Xaa

<210> 294

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals stop translation

<400> 294

Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Ala Val  
   1                  5                                  10                                  15

Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly  
                   20                                  25                                  30

Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser  
                   35                                  40                                  45

Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val  
   50                                  55                                  60

Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Xaa Pro Xaa  
   65                                  70                                  75                                  80

Xaa Xaa Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp  
                   85                                  90                                  95

Ile Glu Glu Glu Lys Gly Xaa

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<210> 295
<211> 33
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals stop translation
```

```
<400> 295
Met  Pro  Val  Thr  Leu  Ser  Ser  Leu  Gly  Phe  Trp  Val  Leu  Leu  Ser  Leu
  1              5              10              15
```

Leu Phe Pro Trp Arg Thr Asp Gln Gly Cys Gly Pro Ala Thr Cys Tyr  
20 25 30

Xaa

```
<210> 296
<211> 43
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (43)
<223> Xaa equals stop translation
```

```
<400> 296
Met Val Leu Gly Leu Leu Leu Leu Xaa Phe Phe Ser Phe Ser Ser
  1             5             10            15
```

Ser Pro Ser Pro Ser Ser Ser Leu Leu Leu Leu Ser Ser Phe Phe Phe  
20 25 30

Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Xaa  
35 40

```
<210> 297
<211> 21
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (21)

<400> 297

Lys Gly Pro Leu Xaa  
20

<211> 70

<213> Homo sapiens

&lt;221&gt; SITE

<223> Xaa equals stop translation

Met Ile Arg Ala Leu Ser Leu Phe Leu Leu Ile Phe Asp Ala Ala Leu  
1 5 10 15

Lys Gly Thr Gly Leu His Ser Cys Ala Lys His Leu Ile Lys Ser Leu  
35 40 45

Ile Asn Ile Ser Pro Xaa  
65 70

<211> 75

<213> Homo sapiens

<221> SITE

<223> Xaa equals stop translation

Met Gly Lys Leu Ile Arg Leu Ser Val Met Val Met Ser Val Arg Arg  
1 5 10 15

Ser Arg Gly Gly Met Glu Glu Glu Cys Ser Arg Gly Leu Cys Cys Val  
35 40 45

Ala Gly Gln His Lys Gln Ala Lys Gly Lys Arg Gln Ala Trp Asn Lys

50                      55                      60

Gly Gly Glu Tyr Gln Cys Val Thr Tyr Cys Xaa  
65                      70                      75

<210> 300  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals stop translation

<400> 300  
Met Pro Ala Leu Val Thr Leu Leu Leu Leu Phe Pro Leu Leu Pro Leu  
1                      5                      10                      15  
Met Glu Ala Ser Cys His Val Met Arg Cys Pro Met Glu Arg Pro Thr  
20                      25                      30

Xaa

<210> 301  
<211> 17  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals stop translation

<400> 301  
Glu Ala Pro Trp Gly Leu Leu Lys Leu Leu Leu Leu Ala Val Phe  
1                      5                      10                      15

Xaa

<210> 302  
<211> 17  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals stop translation

<400> 302  
Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys Lys Glu Glu Pro Lys  
1                      5                      10                      15

103300 294600

Xaa

&lt;210&gt; 303

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 303

Met	Gln	Ser	Pro	Lys	Phe	Leu	Ser	Xaa	Thr	Pro	Tyr	Leu	Phe	Gln	Thr
1				5					10					15	

Pro	Phe	His	Leu	Ile	Ser	Leu	Pro	Cys	His	Phe	Phe	Ile	Phe	Lys	Met
		20						25						30	

Pro	Ile	Val	Tyr	Val	Leu	Phe	Lys	Phe	Phe	Glu	Arg	Leu	Lys	Gln	Pro
		35					40						45		

Leu	Ser	Lys	Ile	Pro	Phe	Cys	Leu	Leu	Ala	Phe	Lys	Phe	Ser	Ile	Arg
	50					55					60				

Ala	Phe	Phe	Leu	Pro	Leu	Trp	His	Ala	Ala	Leu	Trp	Leu	Ser	Phe	Val
	65					70					75				80

Phe	Phe	Ala	Gly	Phe	Leu	His	Asp	Val	Val	Val	Val	Ser	Cys	Leu	Thr
				85					90					95	

Leu	Cys	Gly	Val	Val	Ser	Cys	Ser	Phe	Ser	Ser	Pro	Arg	Cys	Leu	
			100						105					110	

&lt;210&gt; 304

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 304

Met	Ala	Leu	Leu	Ile	Ser	Ser	Leu	Ile	Trp	Ser	Xaa
1				5					10		

&lt;210&gt; 305

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 305  
 Met Gln Met Phe Thr Val Ser Leu Leu Leu Ser Leu Leu Leu Arg Ser  
   1                  5                  10                  15  
 Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr  
                   20                  25                  30  
 Gly Gly Xaa  
           35

<210> 306  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals stop translation

<400> 306  
 Met Ser Glu Ser Ala Cys Ile Leu Asn Asn Gln Lys Glu Leu Xaa  
   1                  5                  10                  15

<210> 307  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 307  
 Met Asp Leu Asp Arg Val Lys Ala Glu Ala Thr Glu Asp Ile Thr Ser  
   1                  5                  10                  15  
 Gly Val Leu Cys Leu Leu Phe Leu Arg Leu Pro Pro Asn Ser Cys Ile  
                   20                  25                  30  
 Phe Pro Ser Ala Val Leu Gly Ser Thr Arg Thr Xaa  
           35                  40

<210> 308  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<400> 308

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Met Met Val Val Gly Thr Gly Thr Ser Leu Ala Leu Ser Ser Leu Leu  
 1 5 10 15  
 Ser Leu Leu Leu Phe Ala Gly Met Gln Met Tyr Ser Arg Gln Leu Ala  
 20 25 30  
 Ser Thr Glu Trp Leu Thr Ile Gln Gly Gly Leu Leu Gly Ser Gly Leu  
 35 40 45  
 Phe Val Phe Ser Leu Thr Ala Phe Asn Asn Leu Glu Asn Leu Val Phe  
 50 55 60  
 Gly Lys Gly Phe Gln Ala Lys Ile Phe Pro Glu Ile Leu Leu Cys Leu  
 65 70 75 80  
 Leu Leu Ala Leu Phe Ala Ser Gly Leu Ile His Arg Val Cys Val Thr  
 85 90 95  
 Thr Cys Phe Ile Phe Ser Met Val Gly Leu Tyr Tyr Ile Asn Lys Ile  
 100 105 110  
 Ser Ser Thr Leu Tyr Gln Ala Ala Ala Pro Val Leu Thr Pro Ala Lys  
 115 120 125  
 Val Thr Gly Lys Ser Lys Lys Arg Asn  
 130 135

<210> 309  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 309  
 Met Phe Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu  
 1 5 10 15  
 Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu  
 20 25 30

Arg Xaa

<210> 310  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (137)  
 <223> Xaa equals stop translation

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&lt;400&gt; 310

Met Arg Thr Pro Gly Pro Leu Pro Val Leu Leu Leu Leu Leu Ala Gly  
 1 5 10 15

Ala Pro Ala Ala Arg Pro Thr Pro Pro Thr Cys Tyr Ser Arg Met Arg  
 20 25 30

Ala Leu Ser Gln Glu Ile Thr Arg Asp Phe Asn Leu Leu Gln Val Ser  
 35 40 45

Glu Pro Ser Glu Pro Cys Val Arg Tyr Leu Pro Arg Leu Tyr Leu Asp  
 50 55 60

Ile His Asn Tyr Cys Val Leu Asp Lys Leu Arg Asp Phe Val Ala Ser  
 65 70 75 80

Pro Pro Cys Trp Lys Val Ala Gln Val Asp Ser Leu Lys Asp Lys Ala  
 85 90 95

Arg Lys Leu Tyr Thr Ile Met Asn Ser Phe Cys Arg Arg Asp Leu Val  
 100 105 110

Phe Leu Leu Asp Asp Cys Asn Ala Leu Glu Tyr Pro Ile Pro Val Thr  
 115 120 125

Thr Val Leu Pro Asp Arg Gln Arg Xaa  
 130 135

&lt;210&gt; 311

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 311

Met Trp Leu Leu Lys Pro Ser Ala His Ser Pro Val His Xaa Leu Val  
 1 5 10 15

Leu Leu Phe Pro Arg Gly Trp Ser Gln Pro Gly Thr His Lys Arg Gln  
 20 25 30

Ile Leu Val Asn Xaa Ala Ser Leu Pro Gly Gly Cys Leu Leu Pro Trp

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35

40

45

Ile Trp Ser Gly Ala Ala Leu Arg Phe Xaa  
 50 55

&lt;210&gt; 312

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 312

Met Ser Arg Arg Ala Glu Ala Ser Ile Phe Val Leu Pro Lys Thr Leu  
 1 5 10 15

Leu Phe Val Leu Phe Pro Ala Phe Pro Ser Pro Ala Val Gly Cys Pro  
 20 25 30

Val Pro Xaa  
 35

&lt;210&gt; 313

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 313

Met Ala Leu Glu Met Val Trp Gly Ser Val Tyr His Cys Ser Cys Tyr  
 1 5 10 15

Ile Thr Pro Trp Ser Lys Ile Gln Ser Phe Ser Leu Ser Leu Phe Gln  
 20 25 30

Phe Ile Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp  
 35 40 45

Tyr Glu Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu Asn Gly Gln  
 50 55 60

Phe Leu Met Met His Arg Val Asn Thr Ser Lys Leu Glu Lys Gln Leu  
 65 70 75 80

Leu Lys Leu Glu Gln Gln Ser Thr Gly Xaa  
 85 90

&lt;210&gt; 314

0033757 082201  
 T02280 2942660



<211> 95  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals stop translation

<400> 314  
 Met Phe Val Leu Phe Ser Leu Pro Lys Tyr Ala Gly Leu Arg Leu Pro  
   1                  5                  10                  15  
 Ile Pro Gly Leu Ser Ala Leu Leu Val Phe Leu Leu Ser Leu Phe Ser  
           20                  25                  30  
 Arg Arg Ala Gln Val Glu Leu Thr Thr Gly Arg Glu Thr Leu Pro Lys  
           35                  40                  45  
 Asn Leu Gln Gly Tyr Phe Pro Glu Phe Gly Phe Gln Val Gln Asn Phe  
   50                  55                  60  
 Leu Ser Cys Lys Ile Tyr Ala Ala Ser Gln Lys Gln Pro Leu Pro Pro  
   65                  70                  75                  80  
 Leu Tyr Gln Leu Arg Phe Tyr Leu Lys His Met Gly Leu Pro Xaa  
                   85                  90                  95

<210> 315  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 315  
 Met Ser Ser His Trp Thr Leu Lys Ile Leu Leu Val Pro Leu Phe Tyr  
   1                  5                  10                  15  
 Leu Ser Leu Glu Phe Pro Ser Gly Phe Val Leu Cys Leu Ala Asn Asp  
           20                  25                  30  
 Leu Gly Tyr His Phe Ser Ser Arg Val Arg Ser Xaa  
           35                  40

<210> 316  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)

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<400> 316

Leu Cys Tyr Leu Asp Ala Cys Ile Asn Val Phe Cys Phe Tyr Xaa  
20 25 30

<211> 113

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals stop translation

<400> 317

Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu  
1 5 10 15

Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro  
20 25 30

Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Thr Ser  
35 40 45

Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala  
50 55 60

Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly  
65 70 75 80

Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly  
85 90 95

Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu  
100 105 110

Xaa

<210> 318

<211> 235

<212> PRT

<213> Homo sapiens

<400> 318

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro

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<210> 319
<211> 35
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals stop translation
```

<400> 319  
Met Glu Asn Phe Phe Phe Ser Phe Tyr Leu Phe Leu Ile Thr Leu Ile  
1 5 10 15

Ile Xaa

<210> 322  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals stop translation

<400> 322  
 Met Phe Tyr Phe Val Leu Phe Ile Tyr Ser Ser Ser Glu Thr Trp Ser  
           1                  5                  10                  15  
 Gly Ser Val Ala Gln Asp Gly Val His Gly Val Ile Ile Gly His Cys  
                   20                  25                  30  
 Ser Val Glu Leu Pro Gly Ser Gly Asp Pro Pro Ala Ser Ala Xaa Leu  
           35                  40                  45  
 Val Ala Gly Thr Ile Gly Thr Cys Pro Thr Met Pro Gly Phe Val Tyr  
           50                  55                  60  
 Phe Leu Asn Asp Val Xaa Asn Xaa  
           65                  70

<210> 323  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 323  
 Met Asp Ser Thr Leu Arg Gln Gly Arg Xaa Leu Leu Thr Leu Val Pro  
           1                  5                  10                  15  
 Ala Ser Leu Phe Ser Leu Thr Leu Gly Gly Pro Gly Pro Trp Lys Asp

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20

25

30

Pro Xaa

<210> 324  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 324  
 Met Gln Val Val Gly Ser Trp Pro Gly Arg Val Gly Val Val Gly Leu  
           1                  5                  10                  15  
 Ala Phe Ser Leu Val Ile Pro Pro Pro Ala Ile Cys Ile Ala Gly Pro  
                   20                  25                  30  
 Ala Pro Gly Leu Gly Gly Gly Glu Arg Gln Gln Lys Gly Leu Gly Arg  
           35                  40                  45  
 Gly Gly Gly Gly Leu Arg Asn Cys Pro Gly Arg Val Gly Met Ala Ala  
           50                  55                  60  
 Glu Pro Gly Ala Leu Leu Cys Leu Thr Ser Arg Asp Gly Ser Leu Leu  
           65                  70                  75                  80  
 Leu Ser Cys Val Arg Pro His His Val Ile Lys Pro Lys Gly Thr Ala  
                   85                  90                  95  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Xaa  
           100                  105                  110  
 Gly Gly Xaa  
           115

<210> 325  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>

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<221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 325  
 Met Asp Leu Pro Gln Phe Ile Tyr Leu Phe Ile Phe Cys Phe Cys Cys  
     1                    5                    10                    15  
 Leu Ala Ile Val Asn Asn Ala Ser Ile Asn Ile His Ile Gln Val Ser  
                     20                    25                    30  
 Met Trp Leu Tyr Val Phe Ile Ser Leu Gly Tyr Leu His Gly Ser Arg  
           35                    40                    45  
 Ile Leu Gly His Asn Ile Ile Leu Cys Leu Thr Ser Gln Arg Ile Ala  
     50                    55                    60  
 Lys Arg Phe Phe Ile Val Ala Ala Ser Phe Thr Phe Pro Pro Ala Met  
     65                    70                    75                    80  
 Tyr Lys Asp Phe Tyr Phe Ser Ile Ser Leu His Leu Pro Thr Leu Leu  
           85                    90                    95  
 Phe Xaa Xaa Xaa Phe Val Phe Ser Leu Leu Pro Pro  
     100                    105

<210> 326  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals stop translation

<400> 326  
 Met Cys Ser Pro Ser Leu Ser Ser Ser Pro Pro Pro Leu Leu Gln Val  
     1                    5                    10                    15  
 Phe Phe Phe Phe Phe Phe Ser Pro His Trp Ala Ala Lys Val Val Pro  
     20                    25                    30

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Gln Trp Lys Xaa Arg His Pro Gln Val Ser Ser Gln Leu Leu Leu Cys  
                   35                                  40                                  45

Phe Leu Arg Val Asn Cys Gln Phe Leu Phe Leu Gln Glu Ile Leu Phe  
                   50                                  55                                  60

Xaa  
   65

<210> 327  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 327  
 Met Cys Leu Ser Arg Trp Lys Ile Phe Tyr Thr Leu Leu Ile Leu Phe  
           1                                  5                                  10                                  15

Ala Phe Phe Ser Ile Thr Ser Glu Asn Glu Thr Phe Tyr Met Ile Ile  
                   20                                  25                                  30

Ile His His Asn Pro Thr Gln Ile Thr Ala Ser Cys Ser Phe Thr Phe  
                   35                                  40                                  45

Leu

<210> 328  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 328  
 Met Glu Arg Pro Asp Trp Glu Thr Ala Ile Gln Lys Pro Leu Cys Ser  
           1                                  5                                  10                                  15

Leu Pro Ala Gly Ser Gly Asn Ala Leu Ala Ala Ser Leu Asn His Tyr  
                   20                                  25                                  30

Ala Gly Tyr Xaa Gln Val Thr Asn Glu Asp Leu Leu Thr Asn Cys Thr  
                   35                                  40                                  45

Leu Leu Leu Cys Arg Arg Leu Leu Ser Pro Met Asn Leu Leu Ser Leu  
           50                                  55                                  60

His Thr Ala Ser Gly Leu Arg Leu Phe Ser Val Leu Ser Leu Ala Trp  
           65                                  70                                  75                                  80

Gly Phe Ile Ala Asp Val Asp Leu Glu Ser Glu Lys Tyr Arg Arg Leu  
                   85                                  90                                  95

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Ile Ala Pro Ser Val Trp Ser Xaa  
65 70

<210> 334  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals stop translation

<400> 334  
Met Glu Gln Gly Gly Gly Pro Arg Leu Leu Leu Ile Pro Gly Leu  
1 5 10 15  
Leu His Asn Thr Tyr Leu Ala Arg Pro Gly Asp Phe Pro Ala Gln Gly  
20 25 30  
Thr Thr Glu Asn Thr Glu Cys Gln Gly Ser Pro Ser Pro Ile Ser His  
35 40 45  
Leu Gly Lys Val Arg Ser Leu Asp Ser Asn Thr Gln Ile Xaa  
50 55 60

<210> 335  
<211> 286  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (286)  
<223> Xaa equals stop translation

<400> 335  
Met Pro Leu Leu Phe Phe Ser Val Ser Thr Leu Phe Ser Gly Ser Val  
1 5 10 15  
Thr Leu Gln Gln Arg Gly Met Phe Leu Pro Trp Thr Gly Thr Gly Glu  
20 25 30  
Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu Met  
35 40 45  
Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly Leu  
50 55 60  
Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser Ser  
65 70 75 80  
Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met Gln  
85 90 95  
Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg Val

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Gln Leu His Leu Lys Gln Xaa  
50 55

<210> 337  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Met Ser Tyr Pro Leu Phe Leu Phe Met Ser Cys Met Val Ile Ser Leu  
           1                  5                  10                  15  
 Ser Pro Asn Ala Gly Ser Gln Thr Ser Thr Val Arg Cys Leu Ser Asp  
                   20                  25                  30  
 Leu Val Thr Phe Thr Leu Ile Lys Gly Ser Pro Val His Gln Thr Pro  
           35                  40                  45  
 Tyr Leu Glu Ser Ser Ile Asn Cys Ile Thr Phe  
           50                  55

<210> 338  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals stop translation

<400> 338  
 Met His Pro Ala Arg Lys Leu Leu Ser Leu Leu Phe Leu Ile Leu Met  
           1                  5                  10                  15  
 Gly Thr Glu Leu Thr Gln Asp Ser Ala Ala Pro Asp Ser Leu Leu Arg  
                   20                  25                  30  
 Ser Ser Lys Gly Ser Thr Arg Gly Ser Leu Ala Ala Ile Val Ile Trp  
           35                  40                  45  
 Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys Thr Pro Gly Ile Phe Arg  
           50                  55                  60  
 Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu Trp Leu  
           65                  70                  75                  80  
 Ile Leu Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly  
                   85                  90                  95  
 Gly Gly Asp Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly  
                   100                  105                  110  
 Gln Leu Cys Ala Leu Leu Ala Xaa  
           115                  120

<210> 339

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<211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 339  
 Met Pro Ser Phe Phe Leu Ser Leu Ile Gln Thr Asn Thr Leu Gly Ser  
 1 5 10 15  
 Ala Ser Phe Leu Leu Phe Leu Thr Leu His Ile His Leu Ser Pro Asn  
 20 25 30  
 Xaa Val His Ser Ala Ser  
 35

<210> 340  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Met Phe Ser Arg Thr Ser Asn Phe Trp Thr Phe Phe Phe Gln Phe Leu  
 1 5 10 15  
 Ile Phe Lys Val Phe Leu Val Leu Lys Asn Leu Phe Thr Ser Gln Lys  
 20 25 30  
 Ile Tyr Lys Ile Tyr Ser Glu Lys Pro Lys Lys Lys Lys Lys  
 35 40 45

<210> 341  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals stop translation

<400> 341  
 Met Ser Ser Leu Leu Ser Ala Gly Leu Gln Ala Ser Leu Cys Gly Lys  
 1 5 10 15  
 Xaa Leu Trp Ala Ser Thr Trp Tyr Leu Val Cys Cys Leu Leu Pro Phe  
 20 25 30

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50					55					60					
Lys	Ile	Arg	Asp	Ile	Glu	Glu	Ala	Ile	Pro	Arg	Glu	Ile	Glu	Ala	Asn
65					70					75					80
Asp	Ile	Val	Phe	Ser	Val	His	Ile	Pro	Leu	Pro	His	Met	Glu	Met	Ser
				85					90					95	
Pro	Trp	Phe	Gln	Phe	Met	Leu	Phe	Ile	Leu	Gln	Leu	Asp	Ile	Ala	Phe
			100					105					110		
Lys	Leu	Asn	Asn	Gln	Ile	Arg	Glu	Asn	Ala	Glu	Val	Ser	Met	Asp	Val
		115					120					125			
Ser	Leu	Ala	Tyr	Arg	Asp	Asp	Ala	Phe	Ala	Glu	Trp	Thr	Glu	Met	Ala
		130					135					140			
His	Glu	Arg	Val	Pro	Arg	Lys	Leu	Lys	Cys	Thr	Phe	Thr	Ser	Pro	Lys
145							150					155			160
Thr	Pro	Glu	His	Glu	Gly	Arg	Tyr	Tyr	Glu	Cys	Asp	Val	Leu	Pro	Phe
				165					170					175	
Met	Glu	Ile	Gly	Ser	Val	Ala	His	Lys	Phe	Tyr	Leu	Leu	Asn	Ile	Arg
			180					185					190		
Leu	Pro	Val	Asn	Glu	Lys	Lys	Lys	Ile	Asn	Val	Gly	Ile	Gly	Glu	Ile
			195				200					205			
Lys	Asp	Ile	Arg	Leu	Val	Gly	Ile	His	Gln	Asn	Gly	Gly	Phe	Thr	Lys
	210					215					220				
Val	Trp	Phe	Ala	Met	Lys	Thr	Phe	Leu	Thr	Pro	Ser	Ile	Phe	Ile	Ile
225						230					235				240
Met	Val	Trp	Tyr	Trp	Arg	Arg	Ile	Thr	Met	Met	Ser	Arg	Pro	Pro	Val
				245					250					255	
Leu	Leu	Glu	Lys	Val	Ile	Phe	Ala	Leu	Gly	Ile	Ser	Met	Thr	Phe	Ile
			260					265					270		
Asn	Ile	Pro	Val	Glu	Trp	Phe	Ser	Ile	Gly	Phe	Asp	Trp	Thr	Trp	Met
		275					280					285			
Leu	Leu	Phe	Gly	Asp	Ile	Arg	Gln	Gly	Ile	Phe	Tyr	Ala	Met	Leu	Leu
		290				295					300				
Ser	Phe	Trp	Ile	Ile	Phe	Cys	Gly	Glu	His	Met	Met	Asp	Gln	His	Glu
305						310					315				320
Arg	Asn	His	Ile	Ala	Gly	Tyr	Trp	Lys	Gln	Val	Gly	Pro	Ile	Ala	Val
				325				330						335	
Gly	Ser	Phe	Cys	Leu	Phe	Ile	Phe	Asp	Met	Cys	Glu	Arg	Gly	Val	Gln
			340					345					350		
Leu	Thr	Asn	Pro	Phe	Tyr	Ser	Ile	Trp	Thr	Thr	Asp	Ile	Gly	Thr	Glu
		355					360					365			

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Leu Ala Met Ala Phe Ile Ile Val Ala Gly Ile Cys Leu Cys Leu Tyr  
 370 375 380  
 Phe Leu Phe Leu Cys Phe Met Val Phe Gln Val Phe Arg Asn Ile Ser  
 385 390 395 400  
 Gly Lys Gln Ser Ser Leu Pro Ala Met Ser Lys Val Arg Arg Leu His  
 405 410 415  
 Tyr Glu Gly Leu Ile Phe Arg Phe Lys Phe Leu Met Leu Ile Thr Leu  
 420 425 430  
 Ala Cys Ala Ala Met Thr Val Ile Phe Phe Ile Val Ser Gln Val Thr  
 435 440 445  
 Glu Gly His Trp Lys Trp Gly Gly Val Thr Val Gln Val Asn Ser Ala  
 450 455 460  
 Phe Phe Thr Gly Ile Tyr Gly Met Trp Asn Leu Tyr Val Phe Ala Leu  
 465 470 475 480  
 Met Phe Leu Tyr Ala Pro Ser His Lys Asn Tyr Gly Glu Asp Gln Ser  
 485 490 495  
 Asn Gly Met Gln Leu Pro Cys Lys Ser Arg Glu Asp Cys Ala Leu Phe  
 500 505 510  
 Val Ser Glu Leu Tyr Gln Glu Leu Phe Ser Ala Ser Lys Tyr Ser Phe  
 515 520 525  
 Ile Asn Asp Asn Ala Ala Ser Gly Ile Xaa  
 530 535

<210> 344  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (202)  
 <223> Xaa equals stop translation

<400> 344  
 Met Gly Ile Ala Leu Ala Val Leu Gly Trp Leu Ala Val Met Leu Cys  
 1 5 10 15  
 Cys Ala Leu Pro Met Trp Arg Val Thr Ala Phe Ile Gly Ser Asn Ile  
 20 25 30  
 Val Thr Ser Gln Thr Ile Trp Glu Gly Leu Trp Met Asn Cys Val Val  
 35 40 45  
 Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser Leu Leu Ala  
 50 55 60

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Lys Ala Glu Glu Val Glu Leu Tyr Leu Glu Lys Leu Lys Glu Lys Arg  
 100 105 110  
 Gly Leu Ser Gly Lys Tyr Gln Thr Ser Ser Lys Leu Phe Gln Asn Cys  
 115 120 125  
 Ser Glu Leu Phe Lys Thr Gln Thr Phe Ser Gly Asp Phe Met His Arg  
 130 135 140  
 Leu Pro Leu Leu Gly Glu Lys Gln Glu Ala Lys Glu Asn Gly Thr Asn  
 145 150 155 160  
 Leu Thr Phe Ile Gly Asp Lys Thr Ala Met His Glu Pro Leu Gln Thr  
 165 170 175  
 Trp Gln Asp Ala Pro Tyr Ile Phe Ile Val His Ile Gly Ile Ser Ser  
 180 185 190  
 Ser Lys Glu Ser Ser Lys Glu Asn Ser Leu Ser Asn Leu Phe Thr Met  
 195 200 205  
 Thr Val Glu Val Lys Gly Pro Tyr Glu Tyr Leu Thr Leu Glu Asp Tyr  
 210 215 220  
 Pro Leu Met Ile Phe Phe Met Val Met Cys Ile Val Tyr Val Leu Phe  
 225 230 235 240  
 Gly Val Leu Trp Leu Ala Trp Ser Ala Cys Tyr Trp Arg Asp Leu Leu  
 245 250 255  
 Arg Ile Gln Phe Trp Ile Gly Ala Val Ile Phe Leu Gly Met Leu Glu  
 260 265 270  
 Lys Ala Val Phe Tyr Ala Glu Phe Gln Asn Ile Arg Tyr Lys Gly Xaa  
 275 280 285  
 Ser Val Gln Gly Ala Leu Ile Leu Ala Glu Leu Leu Ser Ala Val Lys  
 290 295 300  
 Arg Ser Leu Ala Arg Thr Leu Val Ile Ile Val Ser Leu Gly Tyr Gly  
 305 310 315 320  
 Ile Val Lys Pro Arg Leu Glu Ser Leu Phe Ile Arg Leu Xaa  
 325 330

&lt;210&gt; 349

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

00037R "03201  
 00037R "03201

<221> SITE  
 <222> (193)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (200)  
 <223> Xaa equals stop translation

<400> 349  
 Met Val Leu Xaa Val Val Thr Leu Gly Leu Ala Leu Phe Thr Leu Cys  
           1                  5                  10                  15  
 Gly Lys Phe Lys Arg Trp Lys Leu Asn Gly Ala Phe Leu Leu Ile Thr  
                   20                  25                  30  
 Ala Phe Leu Ser Val Leu Ile Trp Val Ala Trp Met Thr Met Tyr Leu  
           35                  40                  45  
 Phe Gly Asn Val Lys Leu Gln Gln Gly Asp Ala Trp Asn Asp Pro Thr  
           50                  55                  60  
 Leu Ala Ile Thr Leu Ala Ala Ser Ala Gly Ser Ser Ser Ser Ser Thr  
           65                  70                  75                  80  
 Pro Ser Leu Arg Ser Thr Ala Pro Phe Cys Gln Pro Cys Arg Arg Thr  
                   85                  90                  95  
 Arg Pro Thr Thr Ser Thr Arg Arg Ser Pro Gly Cys Gly Arg Arg Pro  
           100                  105                  110  
 Ser Arg Arg Thr Cys Ser Cys Arg Gly Pro Ile Trp Arg Thr Arg Pro  
           115                  120                  125  
 Ser Pro Trp Met Asn Thr Met Gln Leu Ser Glu Gln Gln Asp Phe Pro  
           130                  135                  140  
 Thr Ala Ala Trp Glu Lys Asp Pro Val Ala Ala Trp Gly Lys Asp Pro  
           145                  150                  155                  160  
 Ala Leu Arg Leu Glu Ala Thr Cys Ile Ser Gln Leu Arg Trp Pro Ser  
                   165                  170                  175  
 Cys Ser Thr Val Gly Pro Ser Gln Leu Leu Arg Gln Val Thr Gln Glu  
           180                  185                  190  
 Xaa Thr Phe Gly Glu Arg Leu Xaa  
           195                  200

<210> 350  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)

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<210> 352  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals stop translation

<400> 352  
 Met Leu Val Ile Ala Gly Gly Ile Leu Ala Ala Leu Leu Leu Leu Ile  
   1                  5                  10                  15  
 Val Val Val Leu Cys Leu Tyr Phe Lys Ile His Asn Ala Leu Lys Ala  
           20                  25                  30  
 Ala Lys Glu Pro Glu Ala Val Ala Val Lys Asn His Asn Pro Asp Lys  
           35                  40                  45  
 Val Trp Trp Ala Lys Asn Ser Gln Ala Lys Thr Ile Ala Thr Glu Ser  
       50                  55                  60  
 Cys Pro Ala Leu Gln Cys Cys Glu Gly Tyr Arg Met Cys Ala Ser Phe  
   65                  70                  75                  80  
 Asp Ser Leu Pro Pro Cys Cys Cys Asp Ile Asn Glu Gly Leu Xaa  
                   85                  90                  95

<210> 353  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 353  
 Met Leu Leu Lys Ser Asn Ile Leu Met Leu Asn Leu Phe Ala Ala Asn  
   1                  5                  10                  15  
 Val Gly Ala Asn Phe Ala Leu Thr Val Glu Lys Ile Gly Met Ile Leu  
           20                  25                  30  
 Leu Asn Val Ser Gly Xaa  
           35

<210> 354  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>

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<221> SITE  
 <222> (39)  
 <223> Xaa equals stop translation

<400> 354  
 Met Leu Val Val Ala Phe Gly Leu Leu Val Leu Tyr Ile Leu Leu Ala  
     1                    5                    10                    15  
 Ser Ser Trp Lys Arg Pro Glu Pro Gly Ile Leu Thr Asp Arg Gln Pro  
           20                    25                    30  
 Leu Leu His Asp Gly Glu Xaa  
           35

<210> 355  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals stop translation

<400> 355  
 Ser Asp Pro Leu Ala Ser Ala Ser Gln Asn Ala Gly Ile Val Ser Val  
     1                    5                    10                    15  
 Gly Leu Cys Thr Arg Pro Gly Pro Gln Phe Lys Asn Ala Gln Pro Pro  
           20                    25                    30  
 Phe Pro Xaa Gln Lys Ala Pro Arg Cys Leu Trp Glu Asn Gln Pro Pro  
           35                    40                    45  
 Pro Trp Arg Lys Ala Trp Asp Leu Pro Ser His Leu Gly Arg Arg Gly  
           50                    55                    60  
 Ile Cys Gly Lys Ser Phe Xaa  
     65                    70

<210> 356  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<400> 356  
 Met Ala Asp Leu Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro  
     1                    5                    10                    15  
 Ser Leu Gly Asp Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala  
           20                    25                    30

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Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe  
                   35                                  40                                  45  
 Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly  
           50                                  55                                  60  
 Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile  
           65                                  70                                  75                                  80  
 Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly  
                                   85                                  90                                  95  
 Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala  
                                   100                                  105                                  110  
 Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp  
                                   115                                  120                                  125  
 Pro Gln Lys Ala Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg  
           130                                  135                                  140  
 Gln Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala  
           145                                  150                                  155                                  160  
 Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala  
                                   165                                  170                                  175  
 Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val  
                                   180                                  185                                  190  
 Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn  
                                   195                                  200                                  205  
 Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro  
           210                                  215                                  220  
 Pro Thr Ser  
 225

<210> 357

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals stop translation  
  
 <400> 357  
 Met Trp Asp Trp Asp Trp Ser Ala Pro Trp Ser Trp Pro Leu Trp Leu  
   1                  5                  10                  15  
 Ser Leu Ala Leu Val Cys Leu Ser Ala Gly Ala Lys Gly His Arg Ala  
                   20                  25                  30  
 Ser Glu Ala Gly His Ala Arg Ala Leu Thr Cys Glu Met Gly Ser Glu  
                   35                  40                  45  
 Phe Xaa Thr Ala Xaa Gly Leu Val Leu Gly Xaa Xaa Xaa Trp Thr Xaa  
   50                  55                  60  
 Xaa Asn Gly Ser Ala Gly Pro Glu Arg Arg Gly Trp Arg Pro Ala Ala  
   65                  70                  75                  80  
 Phe Leu Ala Val Phe Leu Leu Gly Asp Xaa  
                   85                  90

<210> 358  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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 102280 797E5660

&lt;400&gt; 358

Met Phe Gly Pro Thr Phe His Ser Leu Val Leu Val Pro Pro Trp Pro  
 1 5 10 15

Asn Leu Ser Leu Leu His Phe Thr Ser Pro Val Gly Gln His Ser Ser  
 20 25 30

Phe Leu Pro Thr Ser Leu Arg Leu Xaa Lys Lys Lys Lys Lys Lys Lys  
 35 40 45

&lt;210&gt; 359

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 359

Met Cys Ser Lys Asn Gly Phe Leu Leu Ala Trp Ser Trp Asn Ser Pro  
 1 5 10 15

Trp Leu Pro Gln Ala Ser Leu Ala His Gly Cys Trp Gly Arg Trp Met  
 20 25 30

Ser Asp Leu Val Gly Cys Ser Arg Glu Asn Lys Cys Ala Leu Arg Asp  
 35 40 45

His Ser Glu Arg Val Gln Gly Xaa  
 50 55

&lt;210&gt; 360

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (222)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 360

Ser Pro Leu Xaa Phe Cys Val Val Leu Leu Leu Gln Ala Ala Arg Gly  
 1 5 10 15

Tyr Val Val Arg Lys Pro Ala Gln Ser Arg Leu Asp Asp Asp Pro Pro

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20                      25                      30  
 Pro Ser Thr Leu Leu Lys Asp Tyr Gln Asn Val Pro Gly Ile Glu Lys  
                          35                      40                      45  
 Val Asp Asp Val Val Lys Arg Leu Leu Ser Leu Glu Met Ala Asn Lys  
                          50                      55                      60  
 Lys Glu Met Leu Lys Ile Lys Gln Glu Gln Phe Met Lys Lys Ile Val  
                          65                      70                      75                      80  
 Ala Asn Pro Glu Asp Thr Arg Ser Leu Glu Ala Arg Ile Ile Ala Leu  
                                          85                      90                      95  
 Ser Val Lys Ile Arg Ser Tyr Glu Glu His Leu Glu Lys His Arg Lys  
                                          100                      105                      110  
 Asp Lys Ala His Lys Arg Tyr Leu Leu Met Ser Ile Asp Gln Arg Lys  
                                          115                      120                      125  
 Lys Met Leu Lys Asn Leu Arg Asn Thr Asn Tyr Asp Val Phe Glu Lys  
                                          130                      135                      140  
 Ile Cys Trp Gly Leu Gly Ile Glu Tyr Thr Phe Pro Pro Leu Tyr Tyr  
                                          145                      150                      155                      160  
 Arg Arg Ala His Arg Arg Phe Val Thr Lys Lys Ala Leu Cys Ile Arg  
                                          165                      170                      175  
 Val Phe Gln Glu Thr Gln Lys Leu Lys Lys Arg Arg Arg Ala Leu Lys  
                                          180                      185                      190  
 Ala Ala Ala Ala Ala Gln Lys Gln Ala Lys Arg Arg Asn Pro Asp Ser  
                                          195                      200                      205  
 Pro Ala Lys Ala Ile Pro Lys Thr Leu Lys Asp Ser Gln Xaa  
                                          210                      215                      220

<210> 361  
 <211> 432  
 <212> PRT  
 <213> Homo sapiens

<400> 361  
 Met Gly Ala Pro Ala Ala Ser Leu Leu Leu Leu Leu Leu Phe Ala  
                                          1                      5                      10                      15  
 Cys Cys Trp Ala Pro Gly Gly Ala Asn Leu Ser Gln Asp Gly Tyr Trp  
                                          20                      25                      30  
 Gln Glu Gln Asp Leu Glu Leu Gly Thr Leu Ala Pro Leu Asp Glu Ala  
                                          35                      40                      45  
 Ile Ser Ser Thr Val Trp Ser Ser Pro Asp Met Leu Ala Ser Gln Asp  
                                          50                      55                      60

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Ser Gln Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr Val  
 65 70 75 80  
 Val Leu Lys Cys Gln Val Lys Asp His Glu Asp Ser Ser Leu Gln Trp  
 85 90 95  
 Ser Asn Pro Ala Gln Gln Thr Leu Tyr Phe Gly Glu Lys Arg Ala Leu  
 100 105 110  
 Arg Asp Asn Arg Ile Gln Leu Val Thr Ser Thr Pro His Glu Leu Ser  
 115 120 125  
 Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu Tyr Thr Cys  
 130 135 140  
 Ser Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu Val Thr Val  
 145 150 155 160  
 Leu Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys Ser Ser Leu  
 165 170 175  
 Arg Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser Gly Ser Lys  
 180 185 190  
 Pro Ala Ala Arg Leu Thr Trp Arg Lys Gly Asp Gln Glu Leu His Gly  
 195 200 205  
 Glu Pro Thr Arg Ile Gln Glu Asp Pro Asn Gly Lys Thr Phe Thr Val  
 210 215 220  
 Ser Ser Ser Val Thr Phe Gln Val Thr Arg Glu Asp Asp Gly Ala Ser  
 225 230 235 240  
 Ile Val Cys Ser Val Asn His Glu Ser Leu Lys Gly Ala Asp Arg Ser  
 245 250 255  
 Thr Ser Gln Arg Ile Glu Val Leu Tyr Thr Pro Thr Ala Met Ile Arg  
 260 265 270  
 Pro Asp Pro Pro His Pro Arg Glu Gly Gln Lys Leu Leu Leu His Cys  
 275 280 285  
 Glu Gly Arg Gly Asn Pro Val Pro Gln Gln Tyr Leu Trp Glu Lys Glu  
 290 295 300  
 Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser Ala Leu Ile Phe  
 305 310 315 320  
 Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly Cys Thr Ala Thr  
 325 330 335  
 Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu Asn Val Asn Asp  
 340 345 350  
 Pro Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His Ala Ile Ile Gly  
 355 360 365

003376.00200

Ala Glu Gly Gly Gln Ser Gly Gly Asp Asp Lys Lys Glu Tyr Phe Ile  
420 425 430

Gln Glu Pro Leu His Asn Glu Glu Leu Ala Gly Ala Gly Arg Val Ala  
35 40 45

1. *Chlorophyll a* (Chl *a*)  
 2. *Chlorophyll b* (Chl *b*)  
 3. *Chlorophyll c* (Chl *c*)  
 4. *Chlorophyll d* (Chl *d*)  
 5. *Chlorophyll e* (Chl *e*)  
 6. *Chlorophyll f* (Chl *f*)  
 7. *Chlorophyll g* (Chl *g*)  
 8. *Chlorophyll h* (Chl *h*)  
 9. *Chlorophyll i* (Chl *i*)  
 10. *Chlorophyll j* (Chl *j*)  
 11. *Chlorophyll k* (Chl *k*)  
 12. *Chlorophyll l* (Chl *l*)  
 13. *Chlorophyll m* (Chl *m*)  
 14. *Chlorophyll n* (Chl *n*)  
 15. *Chlorophyll o* (Chl *o*)  
 16. *Chlorophyll p* (Chl *p*)  
 17. *Chlorophyll q* (Chl *q*)  
 18. *Chlorophyll r* (Chl *r*)  
 19. *Chlorophyll s* (Chl *s*)  
 20. *Chlorophyll t* (Chl *t*)  
 21. *Chlorophyll u* (Chl *u*)  
 22. *Chlorophyll v* (Chl *v*)  
 23. *Chlorophyll w* (Chl *w*)  
 24. *Chlorophyll x* (Chl *x*)  
 25. *Chlorophyll y* (Chl *y*)  
 26. *Chlorophyll z* (Chl *z*)  
 27. *Chlorophyll aa* (Chl *aa*)  
 28. *Chlorophyll ab* (Chl *ab*)  
 29. *Chlorophyll ac* (Chl *ac*)  
 30. *Chlorophyll ad* (Chl *ad*)  
 31. *Chlorophyll ae* (Chl *ae*)  
 32. *Chlorophyll af* (Chl *af*)  
 33. *Chlorophyll ag* (Chl *ag*)  
 34. *Chlorophyll ah* (Chl *ah*)  
 35. *Chlorophyll ai* (Chl *ai*)  
 36. *Chlorophyll aj* (Chl *aj*)  
 37. *Chlorophyll ak* (Chl *ak*)  
 38. *Chlorophyll al* (Chl *al*)  
 39. *Chlorophyll am* (Chl *am*)  
 40. *Chlorophyll an* (Chl *an*)  
 41. *Chlorophyll ao* (Chl *ao*)  
 42. *Chlorophyll ap* (Chl *ap*)  
 43. *Chlorophyll aq* (Chl *aq*)  
 44. *Chlorophyll ar* (Chl *ar*)  
 45. *Chlorophyll as* (Chl *as*)  
 46. *Chlorophyll at* (Chl *at*)  
 47. *Chlorophyll au* (Chl *au*)  
 48. *Chlorophyll av* (Chl *av*)  
 49. *Chlorophyll aw* (Chl *aw*)  
 50. *Chlorophyll ax* (Chl *ax*)  
 51. *Chlorophyll ay* (Chl *ay*)  
 52. *Chlorophyll az* (Chl *az*)  
 53. *Chlorophyll aza* (Chl *aza*)  
 54. *Chlorophyll abz* (Chl *abz*)  
 55. *Chlorophyll acz* (Chl *acz*)  
 56. *Chlorophyll adz* (Chl *adz*)  
 57. *Chlorophyll aez* (Chl *aez*)  
 58. *Chlorophyll afz* (Chl *afz*)  
 59. *Chlorophyll agz* (Chl *agz*)  
 60. *Chlorophyll ahz* (Chl *ahz*)  
 61. *Chlorophyll aiz* (Chl *aiz*)  
 62. *Chlorophyll ajz* (Chl *ajz*)  
 63. *Chlorophyll akz* (Chl *akz*)  
 64. *Chlorophyll alz* (Chl *alz*)  
 65. *Chlorophyll amz* (Chl *amz*)  
 66. *Chlorophyll anz* (Chl *anz*)  
 67. *Chlorophyll aoz* (Chl *aoz*)  
 68. *Chlorophyll apz* (Chl *apz*)  
 69. *Chlorophyll aqz* (Chl *aqz*)  
 70. *Chlorophyll arz* (Chl *arz*)  
 71. *Chlorophyll asz* (Chl *asz*)  
 72. *Chlorophyll atz* (Chl *atz*)  
 73. *Chlorophyll auz* (Chl *auz*)  
 74. *Chlorophyll avz* (Chl *avz*)  
 75. *Chlorophyll awz* (Chl *awz*)  
 76. *Chlorophyll axz* (Chl *axz*)  
 77. *Chlorophyll ayz* (Chl *ayz*)  
 78. *Chlorophyll ayz* (Chl *ayz*)  
 79. *Chlorophyll azz* (Chl *azz*)  
 80. *Chlorophyll azaa* (Chl *aza*)  
 81. *Chlorophyll abz* (Chl *abz*)  
 82. *Chlorophyll acz* (Chl *acz*)  
 83. *Chlorophyll adz* (Chl *adz*)  
 84. *Chlorophyll aez* (Chl *aez*)  
 85. *Chlorophyll afz* (Chl *afz*)  
 86. *Chlorophyll agz* (Chl *agz*)  
 87. *Chlorophyll ahz* (Chl *ahz*)  
 88. *Chlorophyll aiz* (Chl *aiz*)  
 89. *Chlorophyll ajz* (Chl *ajz*)  
 90. *Chlorophyll akz* (Chl *akz*)  
 91. *Chlorophyll alz* (Chl *alz*)  
 92. *Chlorophyll amz* (Chl *amz*)  
 93. *Chlorophyll anz* (Chl *anz*)  
 94. *Chlorophyll aoz* (Chl *aoz*)  
 95. *Chlorophyll apz* (Chl *apz*)  
 96. *Chlorophyll aqz* (Chl *aqz*)  
 97. *Chlorophyll arz* (Chl *arz*)  
 98. *Chlorophyll asz* (Chl *asz*)  
 99. *Chlorophyll atz* (Chl *atz*)  
 100. *Chlorophyll auz* (Chl *auz*)  
 101. *Chlorophyll avz* (Chl *avz*)  
 102. *Chlorophyll awz* (Chl *awz*)  
 103. *Chlorophyll axz* (Chl *axz*)  
 104. *Chlorophyll ayz* (Chl *ayz*)  
 105. *Chlorophyll ayz* (Chl *ayz*)  
 106. *Chlorophyll azz* (Chl *azz*)  
 107. *Chlorophyll azaa* (Chl *aza*)  
 108. *Chlorophyll abz* (Chl *abz*)  
 109. *Chlorophyll acz* (Chl *acz*)  
 110. *Chlorophyll adz* (Chl *adz*)  
 111. *Chlorophyll aez* (Chl *aez*)  
 112. *Chlorophyll afz* (Chl *afz*)  
 113. *Chlorophyll agz* (Chl *agz*)  
 114. *Chlorophyll ahz* (Chl *ahz*)  
 115. *Chlorophyll aiz* (Chl *aiz*)  
 116. *Chlorophyll ajz* (Chl *ajz*)  
 117. *Chlorophyll akz* (Chl *akz*)  
 118. *Chlorophyll alz* (Chl *alz*)  
 119. *Chlorophyll amz* (Chl *amz*)  
 120. *Chlorophyll anz* (Chl *anz*)  
 121. *Chlorophyll aoz* (Chl *aoz*)  
 122. *Chlorophyll apz* (Chl *apz*)  
 123. *Chlorophyll aqz* (Chl *aqz*)  
 124. *Chlorophyll arz* (Chl *arz*)  
 125. *Chlorophyll asz* (Chl *asz*)  
 126. *Chlorophyll atz* (Chl *atz*)  
 127. *Chlorophyll auz* (Chl *auz*)  
 128. *Chlorophyll avz* (Chl *avz*)  
 129. *Chlorophyll awz* (Chl *awz*)  
 130. *Chlorophyll axz* (Chl *axz*)  
 131. *Chlorophyll ayz* (Chl *ayz*)  
 132. *Chlorophyll ayz* (Chl *ayz*)  
 133.



<210> 365  
<211> 14

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals stop translation

<400> 365  
 Val Ile Glu Leu Cys Val Ser Leu Arg Ser Leu Asn Phe Xaa  
           1                          5                          10

<210> 366  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals stop translation

<400> 366  
 Met Cys Glu Phe Xaa Xaa Xaa Ile Met Xaa Leu Ala Gly Tyr Phe Ala  
           1                          5                          10                          15

Cys Xaa

<210> 367  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

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<223> Xaa equals stop translation

Met Val Gly Gly Tyr Val Ser Ser Phe Ser Phe Pro Pro Val Ser Ser  
1 5 10 15

Pro Cys Pro Phe Leu Tyr Phe Leu Pro Ser Pro Phe Ser Pro Leu Pro  
35 40 45

Leu Ser Leu Thr Arg Ser Asn Ser Phe Leu Leu Asn Gly Xaa  
50 55 60

<213> Homo sapiens

<223> Xaa equals stop translation

Glu Lys Lys Ser Met Ser Val Ser Asp Ile Tyr Ala Leu Glu Ser Leu  
1 5 10 15

Gly Arg Ser Leu Phe Thr Leu Asn Ser Met Cys Leu Pro Leu Ser Phe  
20 25 30

Xaa

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Met Gly Gly Ala Ser Arg Arg Val Glu Ser Gly Ala Trp Ala Tyr Leu  
1 5 10 15

Ser Pro Leu Val Leu Arg Lys Glu Leu Glu Ser Leu Val Glu Asn Glu  
20 25 30

Gly Ser Glu Val Leu Ala Leu Pro Glu Leu Pro Ser Ala His Pro Ile  
35 40 45

Ile Phe Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser  
 50 55 60  
 Ile Leu Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Xaa Ser  
 65 70 75 80  
 Gln Ala Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val  
 85 90 95  
 Arg Leu Leu Trp Asp Val Leu Thr Pro Asp Pro Asn Ser Cys Pro Pro  
 100 105 110  
 Leu Tyr Val Leu Trp Arg Val His Ser Gln Ile Pro Gln Arg Val Val  
 115 120 125  
 Trp Pro Gly Pro Val Pro Ala Ser Leu Ser Leu Ala Leu Leu Glu Ser  
 130 135 140  
 Val Leu Arg His Val Gly Leu Asn Glu Val His Lys Ala Val Gly Leu  
 145 150 155 160  
 Leu Leu Glu Thr Leu Gly Pro Pro Pro Thr Gly Leu His Leu Gln Arg  
 165 170 175  
 Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu Gly Lys  
 180 185 190  
 Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser Ala Phe  
 195 200 205  
 Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His Arg Arg  
 210 215 220  
 Ala Gln Met Pro Thr Pro Lys Ala Ile Asp Cys Arg Lys Cys Phe Gly  
 225 230 235 240  
 Ala Pro Pro Glu Cys  
 245

<210> 370  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 370  
 Met Lys Phe Ser Leu Leu Phe Leu Pro Met Leu Leu Ile Leu Lys Pro  
 1 5 10 15  
 Asp Leu Phe His Ile Ser Ile Cys Thr Leu Ala Ala Cys Gly Leu Thr  
 20 25 30  
 Phe Pro Xaa

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<210> 371
<211> 22
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals stop translation
```

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<400> 371
Met Leu Phe Phe Phe Ile Leu His Leu Leu Ser Ile Met Ser Phe Leu
 1             5             10             15
Ser Pro Asp Ile Met Xaa
          20

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<210> 372
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 372
Met Phe Gly Leu Leu Val Glu Ser Gln Thr Leu Leu Glu Glu Asn Ala
  1              5              10              15

Val Gln Gly Thr Glu Arg Thr Leu Gly Leu Asn Ile Ala Pro Phe Ile
          20              25              30

Asn Gln Phe Gln Val Pro Ile Arg Val Phe Leu Asp Leu Ser Ser Leu
          35              40              45

Pro Cys Ile Pro Leu Ser Lys Pro Val Glu Leu Leu Arg Leu Asp Leu
          50              55              60

Met Thr Pro Tyr Leu Asn Thr Ser Asn Arg Glu Val Lys Val Tyr Val
  65              70              75              80

Cys Xaa Ile Trp Glu Asp Leu Thr Ala Ile Pro Phe Trp Val Ser Tyr
          85              90              95

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Val Pro

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<210> 373
<211> 78
<212> PRT
<213> Homo sapiens
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<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 373  
 Met Phe Gly Ala His Arg Xaa Trp Gln Gly Ser Val Leu Leu Phe Leu  
     1                    5                    10                    15  
 Ser Phe Ala Trp Gly Asn Gly Gly Ser Val Thr Phe Ser Asp Val Pro  
           20                    25                    30  
 Arg Val Met Pro Leu Ala Gly Gly Pro Xaa Xaa Gln Val Ser Ser Thr  
           35                    40                    45  
 Pro Arg Pro Pro Pro His Gln Val Thr Ser Ser Pro Gly Leu Glu Ser  
           50                    55                    60  
 Ala His Ile Val Cys Pro Glu Arg Lys Lys Lys Lys Lys Lys  
     65                    70                    75

<210> 374  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals stop translation

<400> 374  
 Thr Leu Leu Xaa Phe Leu Xaa Leu Leu Thr Thr Glu Gly Gly Arg Glu  
 1 5 10 15  
 Asn Ile Phe Xaa Gly Arg Ile Leu Xaa Leu Gln Xaa Ser Pro Xaa  
 20 25 30

<210> 375  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals stop translation

<400> 375  
 Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu  
 1 5 10 15  
 Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Pro Thr Gly Ser Ala Xaa  
 20 25 30  
 His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp  
 35 40 45  
 Gln Arg Lys Arg Trp Ser Glu Ala Xaa  
 50 55

<210> 376  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 376

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<210> 377
<211> 38
<212> PRT
<213> Homo sapiens
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<210> 378
<211> 98
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 378
Met  Leu  Arg  Leu  Glu  Ala  Arg  Ala  Thr  Thr  Pro  Gly  Leu  Gln  Thr  His
   1              5              10              15

Ser  Cys  Leu  Gly  Phe  Tyr  Ile  Lys  Tyr  Glu  His  Lys  Asn  Thr  Phe  Pro
          20              25              30

Lys  Tyr  Ser  Leu  Trp  Leu  Cys  Leu  Thr  Leu  Gly  Thr  Xaa  Pro  Ser  Thr
          35              40              45

Ser  Ser  Ile  Leu  Arg  Tyr  Val  Arg  Gly  Val  Tyr  Arg  Gly  Leu  Glu  Tyr
   50              55              60

Ile  Arg  Phe  Phe  Ser  Asn  Ser  Ser  Ser  Ser  Arg  Arg  Arg  Leu  Thr  Thr
   65              70              75              80

Ser  Leu  Gly  Phe  Lys  Val  Ser  Gly  Leu  Lys  Phe  Pro  Pro  Glu  Ile  Thr
          85              90              95

```



Ile Arg

<210> 379  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals stop translation

<400> 379  
 Thr Leu Thr Ser Phe Leu Glu Leu Pro Leu Ala Pro Glu Pro Xaa  
 1 5 10 15

<210> 380  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 380  
 Met His Arg Tyr Ile Thr Phe Phe Lys Cys Phe Arg Ser Val Ile Leu  
 1 5 10 15  
 Asp Leu Leu Phe Ile Leu Ser Pro Leu Ser Gln Gly Cys Phe Ile Leu  
 20 25 30

Phe Xaa

<210> 381  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 381  
 Met Phe Gly Phe Ile Phe Leu Leu Leu Ile Phe Cys Ile Xaa Leu Cys  
 1 5 10 15

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<210> 382
<211> 317
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (207)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 382
Met Pro Gly Leu Gly Arg Pro Arg Gln Ala Arg Trp Thr Leu Met Leu
  1              5              10              15
Leu Leu Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu
          20              25              30
Cys His Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu
          35              40              45
Leu Thr Glu Leu Thr Lys Leu Leu Leu Cys Ala Phe Ser Leu Leu Val
  50              55              60
Gly Trp Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala
  65              70              75              80
Pro Phe Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Asn Leu Val
          85              90              95
Ile Tyr Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser
          100              105              110
Asn Leu Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg
  115              120              125
His Arg Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Leu Met Ala
  130              135              140
Ala Gly Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr
  145              150              155              160
Leu Pro Ser Pro Pro Pro Ala Ala Ala Ala Ser Pro Met Pro Leu His
          165              170              175

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<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals stop translation

<400> 384  
Met Ser Phe Ile Ala Leu His Pro Leu Leu Pro Glu Ala Ala Leu Gly  
1 5 10 15  
Val Pro Gly Gln Ser Pro His Arg Pro Leu Trp Gln Thr Gln Cys Cys  
20 25 30  
Val Ala Pro Pro Gln Pro Arg Ala Glu Phe Xaa  
35 40

<210> 385  
<211> 255  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (255)  
<223> Xaa equals stop translation

<400> 385  
Met Val Thr Ala Leu Thr Leu Leu Ala Phe Pro Leu Leu Leu Leu His  
1 5 10 15  
Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Phe Leu Gln Ser Phe  
20 25 30  
Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr Thr Pro Gly  
35 40 45  
Pro Phe Thr Val Pro Trp Gln Ala Val Ser Ala Trp Ala Leu Met Ala  
50 55 60  
Thr Gln Thr Phe Tyr Ser Thr Gly His Gln Pro Val Phe Pro Ala Ile  
65 70 75 80  
His Trp His Ala Ala Phe Val Gly Phe Pro Glu Gly His Gly Ser Cys  
85 90 95  
Thr Trp Leu Pro Ala Leu Leu Val Gly Ala Asn Thr Phe Ala Ser His  
100 105 110  
Leu Leu Phe Ala Val Gly Cys Pro Leu Leu Leu Leu Trp Pro Phe Leu  
115 120 125  
Cys Glu Ser Gln Gly Leu Arg Lys Arg Gln Gln Pro Pro Gly Asn Glu  
130 135 140  
Ala Asp Ala Arg Val Arg Pro Glu Glu Glu Glu Glu Pro Leu Met Glu

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```
<210> 387
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals stop translation
```

Leu Ser Ser Ser Ser Ser Tyr Asn Leu Ser Phe Leu Leu Ser Leu Xaa  
50 55 60

Ile Met Arg Lys Ala Ser His Xaa  
35 40

Ile Leu Xaa  
35

**00000000**

<400> 392  
Met Arg Lys Gln Arg Leu Val Pro Met Tyr Leu Gly Leu Ile Tyr Ile  
1 5 10 15

Leu Leu Xaa

<210> 393  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 393  
 Met Glu Ile Ser Val Ile Lys Ile Phe Gln Asp Glu Thr Thr Leu Lys  
           1                  5                  10                  15  
 Ile Lys Leu Cys Leu Val Ser Leu Ser Ser Leu Leu Val Ser Leu Leu  
                   20                  25                  30  
 Leu Leu Ile Leu Pro Glu Ser Thr Ser Leu Trp  
           35                  40

<210> 394  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals stop translation

<400> 394  
 Leu Leu Leu Pro Val Leu Ala Ser Ser Val Pro Ser His Ser Ala Thr  
           1                  5                  10                  15

Xaa

<210> 395  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals stop translation

<400> 395  
 Met Leu Pro Leu Leu Leu Phe Thr Tyr Leu Asn Ser Phe Leu His Gln  
           1                  5                  10                  15  
 Arg Ile Pro Gln Ser Val Arg Ile Leu Gly Ser Leu Val Ala Ile Leu  
                   20                  25                  30  
 Leu Val Phe Leu Ile Thr Ala Ile Leu Val Lys Val Gln Leu Asp Ala  
           35                  40                  45

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Pro Ala Ser Xaa

<220>  
<221> SITE

**SECRET**

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<223> Xaa equals stop translation
```

Met Lys Asp Leu Leu Gln Arg Asn Pro Trp Lys Asn Ser Leu Leu Leu  
1 5 10 15

Leu Gln Val Cys Gln Ala Phe Leu Val Cys Ser Leu Thr Gln Leu Ala  
20 25 30

<210> 399

<211> 47

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

<222> (47)

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<223> Xaa equals stop translation
```

<400> 399

Met Ser Glu Ser His Lys Ile Trp Trp Cys Tyr Arg His Leu Ala Phe  
1 5 10 15

Pro Leu Leu Thr Leu Ile Leu Tyr Pro Ala Thr Leu Gly Arg Ser Val  
20 25 30

Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Xaa  
35 40 45

<210> 400

<211> 25

&lt;212&gt; PRT

<213> Homo sapiens

**<220>**

&lt;221&gt; SITE

 $\langle 222 \rangle \quad (21)$ 

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (25)

<223> Xaa equals stop translation

<400> 400

Met Leu Asn Arg Ile Met Val Ala Ser Phe Gly Ala Val Leu Val Gln  
1 5 10 15

Val Cys Arg Gly Xaa Gly Gln Gly Xaa  
20 25

<210> 401  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals stop translation

<400> 401  
 Met Gln Leu Leu Leu Gly Leu Ile Arg Ser Gln Pro Ser Pro Pro  
 1 5 10 15  
 Pro Ser Leu Cys Leu Met Leu Cys Pro Cys Leu Pro Cys Leu Arg Tyr  
 20 25 30  
 Ser Pro Phe Val Pro Gln His Pro Cys Pro Leu Pro Leu Asp Leu Cys  
 35 40 45  
 Leu Ala Gly Cys Ser Ser Leu Ser Val Gln Asp Lys Cys Ser Trp Pro  
 50 55 60  
 Tyr Pro Ile Xaa  
 65

<210> 402  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 402  
 Met Lys Asp Ser Leu Cys Arg Val Ser Phe Leu Lys Asn Gln Ile Phe  
 1 5 10 15  
 Leu Ser Tyr Ile Thr Leu Val Leu Ile Gly His Ala His Phe Ser Gly  
 20 25 30  
 Val Pro His Tyr Asn Val Ser Phe Val Leu Arg Ile Asn Leu Gln Lys  
 35 40 45  
 His Leu Lys Ile Thr Thr Ser Asn Gly Ile Glu Ser Lys Lys Thr Gly  
 50 55 60  
 Glu Arg Gly Glu Thr Met Phe Phe Arg Thr Arg Gly Ser Thr His Ala  
 65 70 75 80  
 Ser Ala Asp Ala Trp  
 85

<210> 403  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens  
 <220>

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&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 403

Met Gly Gly Ser Leu Leu Pro Gln Val Ser Ala Ala Val Leu Xaa Leu  
 1 5 10 15

Asp Gly Leu Leu Leu Pro Gly Leu Lys Gly Cys Gly Pro Leu Arg Val  
 20 25 30

Ser Phe Pro Gln Ala Lys Phe Lys Ala Ala Ala Leu Cys Glu Ala Leu  
 35 40 45

Leu Ala Leu Gly Trp Arg Glu Asn Phe Lys Leu Phe Cys Ser Gln Gly  
 50 55 60

Arg Gly Met Gly Pro Gly Cys Arg Cys Pro His Ser Ala Asn Glu Ser  
 65 70 75 80

Phe Val

&lt;210&gt; 404

&lt;211&gt; 286

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 404

Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala  
 1 5 10 15

Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu  
 20 25 30

His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn  
 35 40 45

Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile  
 50 55 60

Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu  
 65 70 75 80

Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu  
 85 90 95

Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn  
 100 105 110

Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val  
 115 120 125

Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu  
 130 135 140

Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val

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145                      150                      155                      160  
 Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met  
                                  165                      170                      175  
 Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser  
                                  180                      185                      190  
 Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile  
                                  195                      200                      205  
 Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp  
                                  210                      215                      220  
 Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly  
 225                                   230                                   235                                   240  
 Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn  
                                  245                                   250                                   255  
 Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys  
                                  260                                   265                                   270  
 Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
                                  275                                   280                                   285

<210> 405  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE  
 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals stop translation

<400> 405  
 Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val  
   1                  5                  10                  15  
 Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala  
                   20                  25                  30  
 His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro  
                   35                  40                  45  
 Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser  
   50                  55                  60  
 Asp Val Asp Xaa Phe Leu Asp Xaa Phe Leu Ser Ala Gly Val Lys Gln  
   65                  70                  75                  80  
 Ser Asp Xaa Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser  
                   85                  90                  95  
 Met Glu Glu Ser Val Arg Xaa Tyr Asp Trp Ser Pro Arg Xaa Ala Arg  
                   100                  105                  110  
 Arg Thr Gln Thr Arg Ala Gly Ser Xaa Arg Xaa Gly Gly Xaa Cys Cys  
                   115                  120                  125  
 Gly Ala Ser Ala Pro Xaa Pro Ala Trp Pro Ser Pro Pro Arg Ser Ala  
   130                  135                  140  
 His Ser Thr Thr Ser Pro Thr Arg Ser Xaa  
   145                  150

<210> 406  
 <211> 37

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 102280-0925550

<212> PRT  
<213> Homo sapiens

<400> 406  
Met Leu Leu Leu Ile Val Leu Val Ala Asn Ile Leu Ser Met Ser Asn  
1 5 10 15  
Met Ser Asn Ala Val Val Ser Asp Leu His Ile Leu Val His Leu Ile  
20 25 30  
Ser His Lys Ala Asn  
35

<210> 407  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 407  
Met Cys Ile His Val Phe Met Ser Val Leu Trp Val Leu Phe Leu Leu  
1 5 10 15  
Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Val Asn Cys Phe Ser Val  
20 25 30  
Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu  
35 40 45  
Leu Asn Arg His Gln Gly Pro Met Lys Pro Lys Asp  
50 55 60

<210> 408  
<211> 447  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (447)  
<223> Xaa equals stop translation

<400> 408  
Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser  
1 5 10 15  
His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser  
20 25 30  
Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp  
35 40 45  
Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu Trp Gln Ala Leu  
50 55 60  
Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His Val Arg Leu Asn Leu  
65 70 75 80

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Gln	Thr	Gly	Glu	Arg	Glu	Ala	Lys	Leu	Gln	Tyr	Glu	Asp	Lys	Phe	Arg	
				85					90					95		
Asn	Asn	Leu	Lys	Gly	Lys	Arg	Leu	Asp	Ile	Asn	Thr	Asn	Thr	Tyr	Thr	
		100					105					110				
Ser	Gln	Asp	Leu	Lys	Ser	Ala	Leu	Ala	Lys	Phe	Lys	Glu	Gly	Ala	Glu	
		115					120					125				
Met	Glu	Ser	Ser	Lys	Glu	Asp	Lys	Ala	Arg	Gln	Ala	Glu	Val	Lys	Arg	
		130					135					140				
Leu	Phe	Arg	Pro	Ile	Glu	Glu	Leu	Lys	Lys	Asp	Phe	Asp	Glu	Leu	Asn	
145					150					155					160	
Val	Val	Ile	Glu	Thr	Asp	Met	Gln	Ile	Met	Val	Arg	Leu	Ile	Asn	Lys	
				165					170					175		
Phe	Asn	Ser	Ser	Ser	Ser	Ser	Leu	Glu	Glu	Lys	Ile	Ala	Ala	Leu	Phe	
				180			185							190		
Asp	Leu	Glu	Tyr	Tyr	Val	His	Gln	Met	Asp	Asn	Ala	Gln	Asp	Leu	Leu	
		195					200					205				
Ser	Phe	Gly	Gly	Leu	Gln	Val	Val	Ile	Asn	Gly	Leu	Asn	Ser	Thr	Glu	
		210					215					220				
Pro	Leu	Val	Lys	Glu	Tyr	Ala	Ala	Phe	Val	Leu	Gly	Ala	Ala	Phe	Ser	
225					230					235					240	
Ser	Asn	Pro	Lys	Val	Gln	Val	Glu	Ala	Ile	Glu	Gly	Gly	Ala	Leu	Gln	
				245					250					255		
Lys	Leu	Leu	Val	Ile	Leu	Ala	Thr	Glu	Gln	Pro	Leu	Thr	Ala	Lys	Lys	
				260					265					270		
Lys	Val	Leu	Phe	Ala	Leu	Cys	Ser	Leu	Leu	Arg	His	Phe	Pro	Tyr	Ala	
		275					280					285				
Gln	Arg	Gln	Phe	Leu	Lys	Leu	Gly	Gly	Leu	Gln	Val	Leu	Arg	Thr	Leu	
		290					295					300				
Val	Gln	Glu	Lys	Gly	Thr	Glu	Val	Leu	Ala	Val	Arg	Val	Val	Thr	Leu	
305					310					315					320	
Leu	Tyr	Asp	Leu	Val	Thr	Glu	Lys	Met	Phe	Ala	Glu	Glu	Glu	Ala	Glu	
				325					330					335		
Leu	Thr	Gln	Glu	Met	Ser	Pro	Glu	Lys	Leu	Gln	Gln	Tyr	Arg	Gln	Val	
				340					345					350		
His	Leu	Leu	Pro	Gly	Leu	Trp	Glu	Gln	Gly	Trp	Cys	Glu	Ile	Thr	Ala	
		355					360					365				
His	Leu	Leu	Ala	Leu	Pro	Glu	His	Asp	Ala	Arg	Glu	Lys	Val	Leu	Gln	
		370					375					380				



Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg Xaa  
435 440 445

<210> 409

<211> 64

<212> PRT

<213> Homo sapiens

<400> 409

Met Leu Tyr Ser Asp Leu Lys Leu Val Arg Cys His Asn Gly Pro Val  
1 5 10 15

His Val Ile Ser Val Tyr Thr Thr Pro Pro Asp Pro Ser Asn Pro Tyr  
20 25 30

Asn Thr Pro Pro Leu Phe Ala Ser Cys Met Val Ile Ser Tyr Val Thr  
35 40 45

Phe Thr Pro Val Ser Ala Asp Cys Phe Phe Asn Val Leu Val Cys Phe  
50 55 60

<210> 410

<211> 24

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle \quad \{24\}$ 

<223> Xaa equals stop translation

<400> 410

Glu Leu Leu Phe Leu Leu Ile Ile Ile Leu Gly Glu Ser Leu Ser Asp  
1 5 10 15

Val Ile Leu Leu Ile Cys Phe Xaa  
20

<210> 411

<211> 35

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (35)
<223> Xaa equals stop translation
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<210> 412
<211> 41
<212> PRT
<213> Homo sapiens
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<210> 413
<211> 25
<212> PRT
<213> Homo sapiens
```

```

<400> 413
Met Lys Leu Ser Leu Leu Ile Leu Thr Leu Met Gln Arg Tyr Phe Arg
 1          5          10          15
Thr Ile Thr Asn Ser Leu Cys Lys Xaa
          20          25

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<220>  
<221> SITE  
<222> (79)

<223> Xaa equals stop translation

<400> 414

Met Pro Ala Val Ser Gly Pro Gly Pro Leu Phe Cys Leu Leu Leu Leu  
1 5 10 15

Leu Leu Asp Pro His Ser Pro Glu Thr Gly Cys Pro Pro Leu Arg Arg  
20 25 30

Phe Glu Tyr Lys Leu Ser Phe Lys Gly Pro Arg Leu Ala Leu Pro Gly  
35 40 45

Ala Gly Ile Pro Phe Trp Ser His His Gly Gly Glu Gly Gln Gly Trp  
50 55 60

Gly Pro Leu Cys Pro Gly Ser Leu Lys Val Leu Glu Gly Leu Xaa  
65 70 75

<210> 415

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 415

Met His Tyr Leu Leu Lys Glu Cys Asp Ile Asp Thr Asp Ala Tyr Phe  
1 5 10 15

Phe Phe Phe Xaa Leu Leu Val Leu Phe Leu Pro Xaa Lys Tyr Ser Pro  
20 25 30

Pro Phe Tyr Ser Ile Val Leu Phe Arg Trp Asn Asp Ser Tyr Lys Ile  
35 40 45

Ser His Tyr  
50

<210> 416

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

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&lt;400&gt; 416

Met Ala Ala Leu Thr Ser His Leu Gln Asn Gln Ser Asn Asn Ser Asn  
 1 5 10 15

Trp Asn Leu Arg Thr Arg Ser Lys Cys Lys Lys Asp Val Phe Met Pro  
 20 25 30

Pro Ser Ser Ser Ser Glu Leu Gln Glu Ser Arg Gly Leu Ser Asn Phe  
 35 40 45

Thr Ser Thr His Leu Leu Leu Lys Glu Asp Glu Gly Val Asp Asp Val  
 50 55 60

Asn Phe Arg Lys Val Arg Lys Pro Lys Gly Lys Val Thr Ile Leu Lys  
 65 70 75 80

Gly Ile Pro Ile Lys Lys Thr Lys Lys Gly Cys Arg Lys Ser Cys Ser  
 85 90 95

Gly Phe Val Xaa Ser Asp Ser Lys Arg Glu Ser Val Cys Asn Lys Ala  
 100 105 110

Asp Ala Glu Ser Glu Pro Val Ala Gln Lys Ser Gln Leu Asp Arg Thr  
 115 120 125

Val Cys Ile Ser Asp Ala Gly Ala Cys Gly Glu Thr Leu Ser Val Thr  
 130 135 140

Ser Glu Glu Asn Ser Leu Val Lys Lys Lys Glu Arg Ser Leu Ser Ser  
 145 150 155 160

Gly Ser Asn Phe Cys Ser Glu Gln Lys Thr Ser Gly Ile Ile Asn Lys  
 165 170 175

Phe Cys Ser Ala Lys Asp Ser Glu His Asn Glu Lys Tyr Glu Asp Thr  
 180 185 190

Phe Leu Glu Ser Glu Glu Ile Gly Thr Lys Val Glu Val Val Glu Arg  
 195 200 205

Lys Glu His Leu His Thr Asp Ile Leu Lys Arg Gly Ser Glu Met Asp  
 210 215 220

Asn Asn Cys Ser Pro Thr Arg Lys Asp Phe Thr Glu Asp Thr Ile Pro  
 225 230 235 240

Arg Asn Thr Asp Arg Lys Lys Glu Asn Lys Pro Val Phe Phe Gln Gln  
 245 250 255

Ile

&lt;210&gt; 417

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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 05933767 05933767

<220>  
 <221> SITE  
 <222> (144)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (263)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 417  
 Met Glu Lys Gln Cys Cys Ser His Pro Val Ile Cys Ser Leu Ser Thr  
 1 5 10 15  
 Met Tyr Thr Phe Leu Leu Gly Ala Ile Phe Ile Ala Leu Ser Ser Ser  
 20 25 30  
 Arg Ile Leu Leu Val Lys Tyr Ser Ala Asn Glu Glu Asn Lys Tyr Asp  
 35 40 45  
 Tyr Leu Pro Thr Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val  
 50 55 60  
 Phe Cys Val Leu Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser  
 65 70 75 80  
 Arg Asn Leu Lys Tyr Ala Ser Trp Lys Glu Phe Ser Asp Phe Met Lys  
 85 90 95  
 Trp Ser Ile Pro Ala Phe Leu Tyr Phe Leu Asp Asn Leu Ile Val Phe  
 100 105 110  
 Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val Ile Phe Ser Asn  
 115 120 125  
 Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg Ile Val Leu Lys Xaa  
 130 135 140  
 Arg Leu Asn Trp Ile Gln Trp Ala Ser Leu Leu Thr Leu Phe Leu Ser  
 145 150 155 160  
 Ile Val Ala Leu Thr Ala Gly Thr Lys Thr Leu Gln His Asn Leu Ala  
 165 170 175  
 Gly Arg Gly Phe His His Asp Ala Phe Phe Ser Pro Ser Asn Ser Cys  
 180 185 190  
 Leu Leu Phe Arg Asn Glu Cys Pro Arg Lys Asp Asn Cys Thr Ala Lys  
 195 200 205  
 Glu Trp Thr Phe Pro Glu Ala Lys Trp Asn Thr Thr Ala Arg Val Phe  
 210 215 220  
 Ser His Ile Arg Leu Gly Met Gly His Val Leu Ile Ile Val Gln Cys  
 225 230 235 240  
 Phe Ile Ser Ser Met Ala Asn Ile Tyr Asn Glu Lys Ile Leu Lys Glu  
 245 250 255

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Gly Asn Gln Leu Thr Glu Xaa Ile Phe Ile Gln Asn Ser Lys Leu Tyr  
 260 265 270  
 Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg Ser  
 275 280 285  
 Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe Tyr Gly His Ser Ala  
 290 295 300  
 Phe Ser Val Ala Leu Ile Phe Val Thr Ala Phe Gln Gly Leu Ser Val  
 305 310 315 320  
 Ala Phe Ile Leu Lys Phe Leu Asp Asn Met Phe His Val Leu Met Ala  
 325 330 335  
 Gln Val Thr Thr Val Ile Ile Thr Thr Val Ser Val Leu Val Phe Asp  
 340 345 350  
 Phe Arg Pro Ser Leu Glu Phe Phe Leu Glu Ala Pro Ser Val Leu Leu  
 355 360 365  
 Ser Ile Phe Ile Tyr Asn Ala Ser Lys Pro Gln Val Pro Glu Tyr Ala  
 370 375 380  
 Pro Arg Gln Glu Arg Ile Arg Asp Leu Ser Gly Asn Leu Trp Glu Arg  
 385 390 395 400  
 Ser Ser Gly Asp Gly Glu Glu Leu Glu Arg Leu Thr Lys Pro Lys Ser  
 405 410 415  
 Asp Glu Ser Asp Glu Asp Thr Phe  
 420

<210> 418  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals stop translation

<400> 418  
 Met Trp Gly Gln Gly Ser Gln Lys Ser His Phe Ser Asp Leu Val Phe  
 1 5 10 15  
 Gly Val Arg Glu Leu Cys Ala Gln Pro Ser Asp Pro Gly Ser Pro His  
 20 25 30

Xaa

<210> 419  
 <211> 80

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<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals stop translation

<400> 419  
Met Val Gln His Ile Gln Pro Ala Ala Leu Ser Leu Leu Ala Gln Trp  
1 5 10 15  
Ser Thr Leu Val Gln Glu Leu Glu Ala Ala Leu Gln Leu Ala Phe Tyr  
20 25 30  
Pro Asp Ala Val Glu Glu Trp Leu Glu Glu Asn Val His Pro Ser Leu  
35 40 45  
Gln Arg Leu Gln Xaa Leu Leu Gln Asp Leu Ser Glu Val Ser Ala Pro  
50 55 60  
Pro Leu Pro Pro Thr Ser Pro Gly Arg Asp Val Ala Gln Asp Pro Xaa  
65 70 75 80

<210> 420  
<211> 95  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals stop translation

<400> 420  
Met Leu Asn Gln Gly Tyr Ile Arg Lys Ile Ile Leu Ile Ile Leu  
1 5 10 15  
Gly Ser Phe Ser Ser Pro Lys Lys Ala Ile Leu Met Gly Phe Gln Asn

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20                      25                      30  
 Gln Lys Lys Ala Leu Asn Glu Glu Gln Thr Thr Gly Val Pro Met Ser  
           35                      40                      45  
 Ile Ser Gly Lys Leu Arg Pro Ser Arg Ser Leu Asp Phe Val Gln Pro  
           50                      55                      60  
 Pro Arg Phe Gln Ser Gln Gln Pro Ser Ala Val Val Asp Arg Arg Gly  
           65                      70                      75                      80  
 Phe Xaa Xaa Lys Ala Ala Arg Gly Gln Glu Phe Ser Glu Ser Xaa  
                           85                      90                      95

&lt;210&gt; 421

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

Met Arg Gly Pro Ala Gln Ala Lys Leu Leu Pro Gly Ser Ala Ile Gln  
           1                      5                      10                      15  
 Ala Leu Val Gly Leu Ala Arg Pro Leu Val Leu Ala Leu Leu Leu Val  
                           20                      25                      30  
 Ser Ala Ala Leu Ser Ser Val Val Ser Arg Thr Asp Ser Pro Ser Pro  
                           35                      40                      45  
 Thr Val Leu Asn Ser His Ile Ser Thr Pro Asn Val Asn Ala Leu Thr  
           50                      55                      60  
 His Glu Asn Gln Thr Lys Pro Ser Ile Ser Gln Ile Ser Thr Thr Leu  
           65                      70                      75                      80  
 Pro Pro Thr Thr Ser Thr Lys Lys Ser Gly Gly Ala Ser Val Val Pro  
                           85                      90                      95  
 His Pro Ser Pro Thr Pro Leu Ser Gln Glu Glu Ala Asp Asn Asn Glu  
                           100                      105                      110  
 Asp Pro Ser Ile Glu Glu Glu Asp Leu Leu Met Leu Asn Ser Ser Pro  
           115                      120                      125  
 Ser Thr Ala Lys Asp Thr Leu Asp Asn Gly Asp Tyr Gly Glu Pro Asp  
           130                      135                      140  
 Tyr Asp Trp Thr Thr Gly Pro Arg Asp Asp Asp Glu Ser Asp Asp Thr  
           145                      150                      155                      160  
 Leu Glu Glu Asn Arg Gly Tyr Met Glu Ile Glu Gln Ser Val Lys Ser  
                           165                      170                      175  
 Phe Lys Met Pro Ser Ser Asn Ile Glu Glu Glu Asp Ser His Phe Phe  
                           180                      185                      190  
 Phe His Leu Ile Ile Phe Ala Phe Cys Ile Ala Val Val Tyr Ile Thr

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195                      200                      205

Tyr His Asn Lys Arg Lys Ile Phe Leu Leu Val Gln Ser Arg Lys Trp  
 210                      215                      220

Arg Asp Gly Leu Cys Ser Lys Thr Val Glu Tyr His Arg Leu Asp Gln  
 225                      230                      235                      240

Asn Val Asn Glu Ala Met Pro Ser Leu Lys Ile Thr Asn Asp Tyr Ile  
 245                      250                      255

Phe

<210> 422  
 <211> 704  
 <212> PRT  
 <213> Homo sapiens

<400> 422

Met Trp Tyr Arg Leu Arg Leu Leu Lys Pro Gln Pro Asn Ile Ile Pro  
 1                      5                      10                      15

Thr Val Lys Lys Ile Val Leu Leu Ala Gly Trp Ala Leu Phe Leu Phe  
 20                      25                      30

Leu Ala Tyr Lys Val Ser Lys Thr Asp Arg Glu Tyr Gln Glu Tyr Asn  
 35                      40                      45

Pro Tyr Glu Val Leu Asn Leu Asp Pro Gly Ala Thr Val Ala Glu Ile  
 50                      55                      60

Lys Lys Gln Tyr Arg Leu Leu Ser Leu Lys Tyr His Pro Asp Lys Gly  
 65                      70                      75                      80

Gly Asp Glu Val Met Phe Met Arg Ile Ala Lys Ala Tyr Ala Ala Leu  
 85                      90                      95

Thr Asp Glu Glu Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp  
 100                      105                      110

Gly Pro Gln Ala Thr Ser Phe Gly Ile Ala Leu Pro Ala Trp Ile Val  
 115                      120                      125

Asp Gln Lys Asn Ser Ile Leu Val Leu Leu Val Tyr Gly Leu Ala Phe  
 130                      135                      140

Met Val Ile Leu Pro Val Val Val Gly Ser Trp Trp Tyr Arg Ser Ile  
 145                      150                      155                      160

Arg Tyr Ser Gly Asp Gln Ile Leu Ile Arg Thr Thr Gln Ile Tyr Thr  
 165                      170                      175

Tyr Phe Val Tyr Lys Thr Arg Asn Met Asp Met Lys Arg Leu Ile Met  
 180                      185                      190

Val Leu Ala Gly Ala Ser Glu Phe Asp Pro Gln Tyr Asn Lys Asp Ala

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195				200				205							
Thr	Ser	Arg	Pro	Thr	Asp	Asn	Ile	Leu	Ile	Pro	Gln	Leu	Ile	Arg	Glu
210				215				220							
Ile	Gly	Ser	Ile	Asn	Leu	Lys	Lys	Asn	Glu	Pro	Pro	Leu	Thr	Cys	Pro
225				230				235				240			
Tyr	Ser	Leu	Lys	Ala	Arg	Val	Leu	Leu	Leu	Ser	His	Leu	Ala	Arg	Met
				245				250				255			
Lys	Ile	Pro	Glu	Thr	Leu	Glu	Glu	Asp	Gln	Gln	Phe	Met	Leu	Lys	Lys
260								265				270			
Cys	Pro	Ala	Leu	Leu	Gln	Glu	Met	Val	Asn	Val	Ile	Cys	Gln	Leu	Ile
275				280								285			
Val	Met	Ala	Arg	Asn	Arg	Glu	Glu	Arg	Glu	Phe	Arg	Ala	Pro	Thr	Leu
290				295								300			
Ala	Ser	Leu	Glu	Asn	Cys	Met	Lys	Leu	Ser	Gln	Met	Ala	Val	Gln	Gly
305				310				315				320			
Leu	Gln	Gln	Phe	Lys	Ser	Pro	Leu	Leu	Gln	Leu	Pro	His	Ile	Glu	Glu
				325				330				335			
Asp	Asn	Leu	Arg	Arg	Val	Ser	Asn	His	Lys	Lys	Tyr	Lys	Ile	Lys	Thr
340								345				350			
Ile	Gln	Asp	Leu	Val	Ser	Leu	Lys	Glu	Ser	Asp	Arg	His	Thr	Leu	Leu
355				360								365			
His	Phe	Leu	Glu	Asp	Glu	Lys	Tyr	Glu	Glu	Val	Met	Ala	Val	Leu	Gly
370				375				380							
Ser	Phe	Pro	Tyr	Val	Thr	Met	Asp	Ile	Lys	Ser	Gln	Val	Leu	Asp	Asp
385				390				395				400			
Glu	Asp	Ser	Asn	Asn	Ile	Thr	Val	Gly	Ser	Leu	Val	Thr	Val	Leu	Val
				405				410				415			
Lys	Leu	Thr	Arg	Gln	Thr	Met	Ala	Glu	Val	Phe	Glu	Lys	Glu	Gln	Ser
420								425				430			
Ile	Cys	Ala	Ala	Glu	Glu	Gln	Pro	Ala	Glu	Asp	Gly	Gln	Gly	Glu	Thr
435				440								445			
Asn	Lys	Asn	Arg	Thr	Lys	Gly	Gly	Trp	Gln	Gln	Lys	Ser	Lys	Gly	Pro
450				455				460							
Lys	Lys	Thr	Ala	Lys	Ser	Lys	Lys	Lys	Lys	Pro	Leu	Lys	Lys	Lys	Pro
465				470				475				480			
Thr	Pro	Val	Leu	Leu	Pro	Gln	Ser	Lys	Gln	Gln	Lys	Gln	Lys	Gln	Ala
				485				490				495			
Asn	Gly	Val	Val	Gly	Asn	Glu	Ala	Ala	Val	Lys	Glu	Asp	Glu	Glu	Glu
500				505								510			

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<210> 423
<211> 190
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 423
Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser

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1                    5                    10                    15  
 Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val  
                          20                    25                    30  
 Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Leu Gly Pro Pro Asp Pro  
                          35                    40                    45  
 Arg Pro Arg Thr Leu Pro Pro Leu Pro Pro Gly Pro Thr Pro Ala Gln  
                          50                    55                    60  
 Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Pro Arg Gly Ser Glu  
                          65                    70                    75                    80  
 Gly Gly Asn Gly Ser Asn Pro Val Ala Gly Leu Glu Thr Asp Asp His  
                                  85                    90                    95  
 Gly Gly Lys Ala Gly Glu Gly Ser Val Gly Gly Gly Leu Ala Val Ser  
                                  100                    105                    110  
 Pro Asn Pro Gly Asp Lys Pro Met Thr Gln Arg Ala Leu Thr Val Leu  
                                  115                    120                    125  
 Met Val Val Ser Gly Ala Val Leu Val Tyr Phe Val Val Arg Thr Val  
                                  130                    135                    140  
 Arg Met Arg Arg Arg Asn Arg Lys Thr Arg Arg Tyr Gly Val Leu Asp  
                                  145                    150                    155                    160  
 Thr Asn Ile Glu Asn Met Glu Leu Thr Pro Leu Glu Gln Asp Asp Glu  
                                  165                    170                    175  
 Asp Asp Asp Asn Thr Leu Phe Asp Ala Asn His Pro Arg Arg  
                                  180                    185                    190

&lt;210&gt; 424

&lt;211&gt; 179

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (179)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 424

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
                          1                    5                    10                    15  
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
                                  20                    25                    30  
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
                                  35                    40                    45  
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
                                  50                    55                    60

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<210> 425
<211> 40
<212> PRT
<213> Homo sapiens
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<210> 426
<211> 232
<212> PRT
<213> Homo sapiens
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<400> 426
Met Leu Ala Gly Lys Leu Ile Pro Val His Gln Val Arg Gly Leu Lys
 1             5             10             15

Glu Lys Ile Val Arg Ser Phe Glu Val Ser Pro Asp Gly Ser Phe Leu
      20             25             30

Leu Ile Asn Gly Ile Ala Gly Tyr Leu His Leu Leu Ala Met Lys Thr
 35             40             45

Lys Glu Leu Ile Gly Ser Met Lys Ile Asn Gly Arg Val Ala Ala Ser

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<210> 427
<211> 250
<212> PRT
<213> Homo sapiens
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<400> 427
Met Arg Ile Leu Gln Leu Ile Leu Leu Ala Leu Ala Thr Gly Leu Val
  1                               10                      15

Gly Gly Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Pro His Ser
      20                               25                      30

Gln Pro Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly
      35                               40                      45

Ala Thr Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu
      50                               55                      60

Lys Pro Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu
      65                               70                      75                      80

Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro

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				85						90					95			
Gly	Phe	Asn	Asn	Ser	Leu	Pro	Asn	Lys	Asp	His	Arg	Asn	Asp	Ile	Met			
			100					105					110					
Leu	Val	Lys	Met	Ala	Ser	Pro	Val	Ser	Ile	Thr	Trp	Ala	Val	Arg	Pro			
		115					120					125						
Leu	Thr	Leu	Ser	Ser	Arg	Cys	Val	Thr	Ala	Gly	Thr	Ser	Cys	Leu	Ile			
	130					135					140							
Ser	Gly	Trp	Gly	Ser	Thr	Ser	Ser	Pro	Gln	Leu	Arg	Leu	Pro	His	Thr			
145					150					155				160				
Leu	Arg	Cys	Ala	Asn	Ile	Thr	Ile	Ile	Glu	His	Gln	Lys	Cys	Glu	Asn			
				165					170					175				
Ala	Tyr	Pro	Gly	Asn	Ile	Thr	Asp	Thr	Met	Val	Cys	Ala	Ser	Val	Gln			
			180					185					190					
Glu	Gly	Gly	Lys	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val			
		195					200					205						
Cys	Asn	Gln	Ser	Leu	Gln	Gly	Ile	Ile	Ser	Trp	Gly	Gln	Asp	Pro	Cys			
	210					215					220							
Ala	Ile	Thr	Arg	Lys	Pro	Gly	Val	Tyr	Thr	Lys	Val	Cys	Lys	Tyr	Val			
225					230					235					240			
Asp	Trp	Ile	Gln	Glu	Thr	Met	Lys	Asn	Asn									
				245				250										

&lt;210&gt; 428

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

Met	Trp	Thr	Lys	Asn	Asp	Lys	Leu	Lys	Lys	Phe	Phe	Phe	Leu	Arg	Tyr
1				5					10					15	

Leu	Gln	Asn	Met	Val	Tyr	Phe	Tyr	Val	Glu	Lys	Lys	Ser	Tyr	Glu	Gly
			20					25					30		

Ser	Cys	Tyr	Phe	Lys	Arg	Lys	Phe	Ile	Lys	Ser	Pro	Arg	Gly	Met	Lys
		35					40					45			

Met	Thr	Ala	Cys	Phe	Ser	Ile	Ile	Leu	Ala
	50					55			

&lt;210&gt; 429

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

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[REDACTED]



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<400> 431
Met Arg Pro Gly Ser Phe Ser Phe Ile Ala Phe Leu Ala Thr Glu Val
 1               5               10              15

Ser Ser Cys Phe Pro Gly Arg Pro Asp Cys Xaa Thr Gly Met Trp Leu
                20              25              30

Leu Gln Leu Gln Lys Lys Gln Arg Thr Leu Leu Ala Met Ala Pro Arg
    35              40              45

Arg Xaa
    50

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<210> 432  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals stop translation

<400> 432  
 Asp Arg Pro Cys Pro Ser Ser Leu Trp Lys Val Phe Pro Leu Leu Leu  
   1                  5                  10                  15  
 Leu Leu Met Arg Leu Phe Pro Leu Pro Val Pro Gly Asn Gln Arg Ala  
                   20                  25                  30  
 Xaa Leu Pro His Pro Phe Xaa Ala Pro Arg Leu Pro Cys Leu Leu Cys  
           35                  40                  45  
 Leu Cys Thr Gln Gln Phe Xaa Val Cys Ser His Tyr Leu Pro Ala Gly  
   50                  55                  60  
 Tyr Arg Val Asn Ser Xaa  
   65                  70

<210> 433  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals stop translation

<400> 433  
 Met His Glu Lys Ala Trp Asn Leu Ile Leu Leu Trp Trp Leu Ser Leu  
   1                  5                  10                  15  
 Asp Leu Leu Gly Val Ala Lys Thr Ala Met Trp Ala Gln Trp Cys Gly  
           20                  25                  30

LEU-23-LEU

Leu Asn Asp His Lys Gly Lys Xaa  
                   35                  40

<210> 434  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 434  
 Met Ala Phe Val Leu Leu Phe Cys Phe Val Gly Leu Gln Ser Ser Arg  
   1                  5                  10                  15  
 Ala Gly Pro Tyr Ser Glu Leu Val Leu Cys Gln Thr Pro Ala Ser Ala  
                   20                  25                  30  
 Pro Asp Pro Val Ser Thr Leu Cys Val Leu Glu Glu Glu Pro Leu Asp  
                   35                  40                  45  
 Ala Tyr Pro Asp Ser Pro Ser Ala Cys Leu Val Leu Asn Trp Glu Glu  
                   50                  55                  60  
 Pro Cys Asn Asn Gly Ser Glu Ile Leu Ala Tyr Thr Ile Asp Leu Gly  
   65                  70                  75                  80  
 Asp Thr Ser Ile Thr Val Gly Asn Thr Thr Met His Val Met Lys Asp  
                   85                  90                  95  
 Leu Leu Pro Glu Thr Thr Tyr Arg  
                   100

<210> 435  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 435  
 Met Phe Ser Leu Leu Trp Leu Val Cys Val Pro Ser Asn Ser Ser Val  
   1                  5                  10                  15  
 Ala Asn Val Thr Ala Ser Arg Gly Gly Val Phe Lys Arg Ser Leu Gly  
                   20                  25                  30  
 His Glu Gly Phe Ser Xaa  
                   35

<210> 436  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 436  
 Lys Trp Leu Leu Phe Ile Phe Leu Leu Cys Leu Gln Leu Val Asn Ala  
   1                  5                  10                  15  
 Leu Leu Ser Leu Phe Gln Glu Arg Phe Val His Cys Pro Ala Arg Phe  
                   20                  25                  30  
 Val Ser Xaa  
           35

<210> 437  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals stop translation

<400> 437  
 Met Leu Leu Phe Leu Ser Ile Thr Asn Ser Leu Ser Phe Ile Ser Val  
   1                  5                  10                  15  
 Asp Lys Pro Phe Gly Gln Ser Glu Asp Val Cys Pro Val Ile Ser Xaa  
                   20                  25                  30

<210> 438  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals stop translation

<400> 438  
 Met Glu Phe Leu Phe Asn Lys Thr Gly Trp Ala Phe Ala Ala Leu Cys  
   1                  5                  10                  15  
 Phe Val Leu Ala Met Thr Ser Gly Gln Met Trp Asn His Ile Arg Gly  
                   20                  25                  30  
 Pro Pro Tyr Ala His Lys Asn Pro His Thr Gly His Val Asn Tyr Ile  
                   35                  40                  45

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His Gly Ser Ser Gln Ala Gln Phe Val Ala Glu Thr His Ile Val Leu  
50 55 60

Leu Phe Asn Gly Gly Val Thr Leu Gly Met Val Leu Leu Cys Glu Ala  
65 70 75 80

Ala Thr Ser Asp Met Asp Ile Gly Lys Arg Lys Ile Met Cys Val Ala  
85 90 95

Gly Ile Gly Leu Val Val Leu Phe Phe Ser Trp Met Leu Ser Ile Phe  
100 105 110

Arg Ser Lys Tyr His Gly Tyr Pro Tyr Ser Phe Leu Met Ser Xaa  
115 120 125

<210> 439

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals stop translation

<400> 439

Met Thr Trp His Ser Arg Glu Ser Phe Xaa Leu Leu Arg Val Val Ala  
1 5 10 15

Pro Ser Gln Ala Pro Gly Met Gln Val Ser Pro Ser Gln Arg Ala Trp  
20 25 30

Arg Arg Pro Leu His Arg Cys His Val Ala Ala Pro Arg Pro His His  
35 40 45

Phe Ala Phe Phe Arg Asn Pro Phe Ser Trp Ser Phe Ile Lys Leu Leu  
50 55 60

Tyr Arg Tyr Leu Xaa  
65

<210> 440

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals stop translation

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&lt;400&gt; 440

Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val  
 1 5 10 15

Gln Ile Ala Tyr Leu Val Gln Ala Val Arg Ala Ala Gly Lys Cys Asp  
 20 25 30

Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Thr  
 35 40 45

Trp Pro Thr Thr Arg Ser Leu Gly Arg Gln Asp Glu His Gln Asp Arg  
 50 55 60

Val His Ile Leu Gly Gly Phe Pro Gln Leu His Gly His Ser Pro Tyr  
 65 70 75 80

Gly Leu Pro Gly Arg Gly Glu Arg Tyr Val Gly Xaa  
 85 90

&lt;210&gt; 441

&lt;211&gt; 380

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (264)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (296)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (380)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 441

Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp Ser  
 1 5 10 15

Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro Pro Gln  
 20 25 30

Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala Arg Val Leu  
 35 40 45

Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu Gly Lys Met Ala  
 50 55 60

Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln Arg Met Pro Ala Ile  
 65 70 75 80

Pro Val Asn Ile His Ser Met Asn Phe Thr Trp Gln Ala Ala Gly Gln  
 85 90 95

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Ala Glu Tyr Phe Tyr Glu Phe Leu Ser Leu Arg Ser Leu Asp Lys Gly  
 100 105 110  
 Ile Met Ala Asp Pro Thr Val Asn Val Pro Leu Leu Gly Thr Val Pro  
 115 120 125  
 His Lys Ala Ser Val Val Gln Val Gly Phe Pro Cys Leu Gly Lys Gln  
 130 135 140  
 Asp Gly Val Ala Ala Phe Glu Val Asp Val Ile Val Met Asn Ser Glu  
 145 150 155 160  
 Gly Asn Thr Ile Leu Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr  
 165 170 175  
 Cys Gln Gln Ala Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys  
 180 185 190  
 Asn Glu Arg Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His  
 195 200 205  
 Cys Glu Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys  
 210 215 220  
 Val Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn  
 225 230 235 240  
 Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr Cys  
 245 250 255  
 Phe Tyr Pro Gly Lys Cys Ile Xaa Pro Pro Gly Leu Glu Gly Glu Gln  
 260 265 270  
 Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly Gly Lys Cys  
 275 280 285  
 Ile Gly Lys Ser Lys Cys Lys Xaa Ser Lys Gly Tyr Gln Gly Asp Leu  
 290 295 300  
 Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly Ala His Gly Thr Cys  
 305 310 315 320  
 His Glu Pro Asn Lys Cys Gln Cys Gln Glu Gly Trp His Gly Arg His  
 325 330 335  
 Cys Asn Lys Arg Tyr Glu Ala Ser Leu Ile His Ala Leu Arg Pro Ala  
 340 345 350  
 Gly Ala Gln Leu Arg Gln His Thr Pro Ser Leu Lys Lys Ala Glu Glu  
 355 360 365  
 Arg Arg Asp Pro Pro Glu Ser Asn Tyr Ile Trp Xaa  
 370 375 380

&lt;210&gt; 442

&lt;211&gt; 24

0093767 032201

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals stop translation

<400> 442  
 Met Thr Ser Asn Leu Leu Leu Thr Leu Leu Leu Lys Asp Thr Leu  
     1                    5                    10                    15

Xaa Leu Ala Lys Xaa Asn Xaa Xaa  
                     20

<210> 443  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 443  
 Met Arg His His Thr Gln Leu Asn Phe Ile Phe Leu Val Glu Met Val  
     1                    5                    10                    15

Phe Leu His Val Gly Gln Ala Gly Leu Lys Leu Pro Thr Ser Gly Asp  
                     20                    25                    30

Xaa Ala Cys Phe Gly Leu Pro Lys Val Leu Gly Leu Gln Ala Xaa  
             35                    40                    45

<210> 444

00033767 082201



<211> 214  
 <212> PRT  
 <213> Homo sapiens

<400> 444

Met Gln Val Thr Ile Thr Leu Thr Ser Pro Ile Ile Arg Glu Glu Asn  
 1 5 10 15  
 Met Arg Glu Gly Asp Val Thr Ser Gly Met Val Lys Asp Pro Pro Asp  
 20 25 30  
 Val Leu Asp Arg Gln Lys Cys Leu Asp Ala Leu Ala Ala Leu Arg His  
 35 40 45  
 Ala Lys Trp Phe Gln Ala Arg Ala Asn Gly Leu Gln Ser Cys Val Ile  
 50 55 60  
 Ile Ile Arg Ile Leu Arg Asp Leu Cys Gln Arg Val Pro Thr Trp Ser  
 65 70 75 80  
 Asp Phe Pro Ser Trp Ala Met Glu Leu Leu Val Glu Lys Ala Ile Ser  
 85 90 95  
 Ser Ala Ser Ser Pro Gln Ser Pro Gly Asp Ala Leu Arg Arg Val Phe  
 100 105 110  
 Glu Cys Ile Ser Ser Gly Ile Ile Leu Lys Gly Ser Pro Gly Leu Leu  
 115 120 125  
 Asp Pro Cys Glu Lys Asp Pro Phe Asp Thr Leu Ala Thr Met Thr Asp  
 130 135 140  
 Gln Gln Arg Glu Asp Ile Thr Ser Ser Ala Gln Phe Ala Leu Arg Leu  
 145 150 155 160  
 Leu Ala Phe Arg Gln Ile His Lys Val Leu Gly Met Asp Pro Leu Pro  
 165 170 175  
 Gln Met Ser Gln Arg Phe Asn Ile His Asn Asn Arg Lys Arg Arg Arg  
 180 185 190  
 Asp Ser Asp Gly Val Asp Gly Phe Glu Ala Glu Gly Lys Lys Asp Lys  
 195 200 205  
 Lys Asp Tyr Asp Asn Phe  
 210

<210> 445  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (144)  
 <223> Xaa equals stop translation

0033767 "003301"

Leu Leu Ser Ile Leu Leu Cys Leu Leu Ala Ser Gly Leu Val Val Phe  
1 5 10 15

Phe Leu Phe Pro His Ser Val Leu Val Asp Asp Asp Gly Ile Lys Val  
20 25 30

Val Lys Val Thr Phe Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile  
35 40 45

Met Ala Thr Leu Lys Ile Arg Asn Ser Asn Phe Tyr Thr Val Ala Val  
50 55 60

Thr Ser Leu Ser Ser Gln Ile Gln Tyr Met Asn Thr Val Val Asn Phe  
65 70 75 80

Thr Gly Lys Ala Glu Met Gly Gly Pro Phe Ser Tyr Val Tyr Phe Phe  
85 90 95

Cys Thr Val Pro Glu Ile Leu Val His Asn Ile Val Ile Phe Met Arg  
100 105 110

Thr Ser Val Lys Ile Ser Tyr Ile Gly Leu Met Thr Gln Ser Ser Leu  
115 120 125

Glu Thr His His Tyr Val Asp Cys Gly Gly Asn Ser Thr Ala Ile Xaa  
130 135 140

<211> 37

<213> Homo sapiens

&lt;221&gt; SITE

<223> Xaa equals stop translation

Met Phe Phe Phe Leu Tyr Val Tyr Ser Val Leu Cys Gly Leu Leu Val  
1 5 10 15

Tyr Pro Ser Leu Pro Ser His Ser Val Ser Leu Val Thr Ser Leu Val  
20 25 30

Ala Ser Ala Leu Xaa  
35

<211> 37

<213> Homo sapiens

```
<220>
<221> SITE
<222> (37)
<223> Xaa equals stop translation
```

```
<210> 448
<211> 192
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (192)
<223> Xaa equals stop translation
```

```
<400> 448
Met Met Ala Ala Met Val Leu Thr Ser Leu Ser Cys Ser Pro Val Val
  1                               10                          15

Gln Ser Pro Pro Gly Thr Glu Ala Asn Phe Ser Ala Ser Arg Ala Ala
      20                      25                        30

Cys Asp Pro Trp Lys Glu Ser Gly Asp Ile Ser Asp Ser Gly Xaa Ser
     35                     40                       45

Thr Thr Ser Gly His Trp Ser Gly Ser Ser Gly Val Ser Thr Pro Ser
    50                   55                         60

Pro Pro His Pro Gln Ala Ser Pro Lys Tyr Leu Gly Asp Ala Phe Gly
   65                 70                    75                80

Ser Pro Gln Thr Asp His Gly Phe Glu Thr Asp Pro Asp Pro Phe Leu
          85                  90                      95

Leu Asp Glu Pro Ala Pro Arg Lys Arg Lys Asn Ser Val Lys Val Met
    100              105               110
```

```

<210> 449
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 449
Met Ser Thr Asn Tyr Leu Thr Asp Val Cys Ser Leu Phe Ser Tyr Leu
  1                      5              10                  15

Asn Tyr Leu Tyr Phe His His His Leu Pro Val Pro Asn Thr Xaa
      20              25                  30

```

```
<210> 450
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals stop translation

<400> 450  
 Met Gly Phe Phe Phe Val Leu Phe Phe Leu Tyr Leu Ala Leu Ser Arg  
   1                  5                  10                  15  
 Asp Trp Ser Ile Asn Phe Leu Lys Asp His Arg Ile Asn Phe Phe Val  
                   20                  25                  30  
 Ala Thr Ser Tyr Phe Ser Val Tyr Val Arg Gly Xaa Pro Xaa Val Pro  
           35                  40                  45  
 Ala Asp Thr Pro Leu Gly Pro Leu Leu Ser Leu Trp Leu His His Asn  
       50                  55                  60  
 Ala Phe Phe Ser Ile Leu Pro Lys Phe Pro Glu Asn Xaa Xaa Phe Leu  
       65                  70                  75                  80  
 Ile Leu Lys Lys Leu Val Val Glu Met Gly Trp Asp Leu Phe Ile Ser  
                   85                  90                  95  
 Pro Glu Asn Lys Xaa  
                   100

<210> 451  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals stop translation

<400> 451  
 Met Ala Arg Tyr Phe Ile Phe Phe Ile Leu Val Phe Met Lys Val Ser  
   1                  5                  10                  15  
 Leu Asn Thr Thr Trp Pro Ala Pro Arg Pro Ala Thr Leu Arg Thr Ala  
           20                  25                  30  
 Asn Lys Ser Lys Xaa  
           35

<210> 452  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals stop translation

<400> 452  
 Phe Ser Thr Ile Arg Ser Gly Leu Thr Asp Arg Ser Val Asn Phe Leu  
           1                  5                  10                  15  
 Phe Leu Phe Leu Asp Val Pro Asp Cys Arg Leu Val Asn Ile Glu Leu  
                   20                  25                  30  
 Met Ala Asn Ser Thr Val Thr His Ala Xaa  
           35                  40

<210> 453  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 453  
 Met Ser Glu Trp Glu Leu Ser Ser Lys Phe Ser Gln Thr Gln Arg Gln  
           1                  5                  10                  15  
 His Cys Leu Leu Leu Asn Asp Tyr Ser Phe Leu Pro Val Phe Trp Tyr  
                   20                  25                  30  
 Phe Leu Gly Ile Leu Leu Thr Thr Ala Ile Thr Leu Phe Tyr Phe His  
           35                  40                  45

<210> 454  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 454  
 Met Pro Trp Arg Arg Ala Gly Leu Met Met Leu Pro Ile Ile Thr Gly  
           1                  5                  10                  15  
 Cys Cys Pro Cys Ser Ala Ser Ile Xaa  
           20                  25

<210> 455  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

05933767 "05933767"

&lt;400&gt; 455

Met Tyr Leu Cys Lys Thr Val Lys Val Leu Ile Cys Tyr Asp Trp Ile  
 1 5 10 15

Leu Gly Leu Val Ser Ser Gly Gln His Trp Val Val Ser Leu Ser Tyr  
 20 25 30

Ser Ile Arg Val Tyr Pro Ala Met His Phe Thr Leu Cys Val His Ile  
 35 40 45

Tyr Ser Lys Glu Pro Cys  
 50

&lt;210&gt; 456

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 456

Met Thr Ala Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys  
 1 5 10 15

Pro Ile Leu Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His  
 20 25 30

Ser Phe Ile His Ser Ser Asn Ile Cys Xaa  
 35 40

&lt;210&gt; 457

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 457

Met Phe Leu Thr Thr Trp Phe Leu Leu Leu Ser Val Ala Trp Xaa Ala  
 1 5 10 15

Leu Thr Arg Ser Gly Arg Ser Cys Leu Pro Leu Val Gly Arg Pro Arg  
 20 25 30

Glu Gln Ser Pro Arg Thr His Cys Ala Ala Ser Ser Thr Lys Glu Arg

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293

1 5 10 15  
Leu Thr Ile Val Ile Leu Gln Thr Gly His Lys Gly Thr Leu Xaa  
20 25 30

<210> 460

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals stop translation

<400> 460

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
35 40 45

Gly Asp Leu Leu Lys Cys Pro Leu Xaa  
50 55

<210> 461

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (338)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (416)

<223> Xaa equals stop translation

<400> 461

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
50 55 60

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Arg 65	Ser	Tyr	Cys	Ser	Ala 70	Lys	Ala	Arg	Asp	Arg 75	His	Phe	Ala	Gly	Asp 80
Val	Leu	Gly	Tyr	Val 85	Thr	Pro	Trp	Asn	Ser 90	His	Gly	Tyr	Asp	Val 95	Thr
Lys	Val	Phe	Gly 100	Ser	Lys	Phe	Thr	Gln 105	Ile	Ser	Pro	Val	Trp	Leu 110	Gln
Leu	Lys	Arg 115	Arg	Gly	Arg	Glu	Met 120	Phe	Glu	Val	Thr	Gly 125	Leu	His	Asp
Val	Asp 130	Gln	Gly	Trp	Met	Arg 135	Ala	Val	Arg	Lys	His 140	Ala	Lys	Gly	Leu
His 145	Ile	Val	Pro	Arg	Leu 150	Leu	Phe	Glu	Asp	Trp 155	Thr	Tyr	Asp	Asp	Phe 160
Arg	Asn	Val	Leu	Asp 165	Ser	Glu	Asp	Glu	Ile 170	Glu	Glu	Leu	Ser	Lys 175	Thr
Val	Val	Gln 180	Val	Ala	Lys	Asn	Gln	His 185	Phe	Asp	Gly	Phe	Val 190	Val	Glu
Val	Trp	Asn 195	Gln	Leu	Leu	Ser	Gln 200	Lys	Arg	Val	Gly	Leu 205	Ile	His	Met
Leu 210	Thr	His	Leu	Ala	Glu 215	Ala	Leu	His	Gln	Ala 220	Arg	Leu	Leu	Ala	Leu
Leu 225	Val	Ile	Pro	Pro	Ala 230	Ile	Thr	Pro	Gly	Thr 235	Asp	Gln	Leu	Gly	Met 240
Phe	Thr	His	Lys	Glu 245	Phe	Glu	Gln	Leu	Ala 250	Pro	Val	Leu	Asp	Gly 255	Phe
Ser	Leu	Met	Thr 260	Tyr	Asp	Tyr	Ser	Thr 265	Ala	His	Gln	Pro	Gly 270	Pro	Asn
Ala	Pro	Leu 275	Ser	Trp	Val	Arg	Ala 280	Cys	Val	Gln	Val	Leu 285	Asp	Pro	Lys
Ser 290	Lys	Trp	Arg	Ser	Lys	Ile 295	Leu	Leu	Gly	Leu	Asn 300	Phe	Tyr	Gly	Met
Asp 305	Tyr	Ala	Thr	Ser	Lys 310	Asp	Ala	Arg	Glu	Pro 315	Val	Val	Gly	Ala	Arg 320
Tyr	Ile	Gln	Thr	Leu 325	Lys	Asp	His	Arg	Pro 330	Arg	Met	Val	Trp	Asp 335	Ser
Gln	Xaa	Ser	Glu 340	His	Phe	Phe	Glu	Tyr 345	Lys	Lys	Ser	Arg	Ser	Gly	Arg
His	Val	Val 355	Phe	Tyr	Pro	Thr	Leu 360	Lys	Ser	Leu	Gln	Val 365	Arg	Leu	Glu
Leu	Ala	Arg	Glu	Leu	Gly	Val	Gly	Val	Ser	Ile	Trp	Glu	Leu	Ala	Arg

370

375

380

Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro  
 385 390 395 400

Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val Xaa  
 405 410 415

&lt;210&gt; 462

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 462

Met Ala Pro Gly Pro Leu Ser Ala Thr Gln Ala Val Val Ile His Thr  
 1 5 10 15

Thr His Cys Leu Gln Leu Pro Val Trp Cys Leu Ser Leu Val Ser Glu  
 20 25 30

Leu Leu Gly Arg Ala Pro Pro His Asn Lys Asp Ala Leu Arg Pro Ser  
 35 40 45

Lys Lys Lys Lys Lys Lys Leu Xaa Gly Gly Pro Val Pro Ile Pro Pro  
 50 55 60

&lt;210&gt; 463

&lt;211&gt; 206

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (206)

&lt;223&gt; Xaa equals stop translation

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&lt;400&gt; 463

Met Leu Gly Ala Lys Pro His Trp Leu Pro Gly Pro Leu His Ser Pro  
 1 5 10 15

Gly Leu Pro Leu Val Leu Val Leu Leu Ala Leu Gly Ala Gly Trp Ala  
 20 25 30

Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val  
 35 40 45

Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu  
 50 55 60

Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Ala Ala Val Arg Ser Xaa  
 65 70 75 80

His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Xaa Gly Ala Ile  
 85 90 95

Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala  
 100 105 110

Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe  
 115 120 125

His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met  
 130 135 140

Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val  
 145 150 155 160

Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly  
 165 170 175

Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Asn Leu Leu Gly Gly Trp  
 180 185 190

Lys Tyr Ser Ser Phe Ser Gly Phe Leu Ile Phe Pro Leu Xaa  
 195 200 205

&lt;210&gt; 464

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 464

Met Gln Arg Lys Val Ser Asp Phe Ile Ile His Gln Arg Leu Thr Val  
 1 5 10 15

Asn Leu Cys Val Ile Ser Phe Phe Phe Phe Leu Pro Ile Cys Ile Phe  
 20 25 30

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<210> 465
<211> 136
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals stop translation
```

```
<400> 465
Val Val Gly Thr Gly Thr Ser Leu Ala Leu Ser Ser Leu Leu Ser Leu
  1             5             10            15
```

Leu Leu Phe Ala Gly Met Gln Met Tyr Ser Arg Gln Leu Ala Ser Thr  
20 25 30

Glu Trp Leu Thr Ile Gln Gly Gly Leu Leu Gly Ser Gly Leu Phe Val  
35 40 45

Phe Ser Leu Thr Ala Phe Asn Asn Leu Glu Asn Leu Val Phe Gly Lys  
50 55 60

Gly Phe Gln Ala Lys Ile Phe Pro Glu Ile Leu Leu Cys Leu Leu Leu  
65 70 75 80

Ala Leu Phe Ala Ser Gly Leu Ile His Arg Val Cys Val Thr Thr Cys  
85 90 95

Phe Ile Phe Ser Met Val Gly Leu Tyr Tyr Ile Asn Lys Ile Ser Ser  
100 105 110

Thr Leu Tyr Gln Ala Ala Pro Val Leu Thr Pro Ala Lys Val Thr  
115 120 125

Gly Lys Ser Lys Lys Arg Asn Xaa  
130 135

```
<210> 466
<211> 50
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals stop translation

<400> 466  
 Met Cys Leu Ser Arg Trp Lys Ile Phe Tyr Thr Leu Leu Ile Leu Phe  
 1 5 10 15

Xaa Xaa Phe Ser Ile Thr Ser Glu Xaa Glu Thr Phe Tyr Met Ile Ile  
 20 25 30

Ile His His Asn Pro Thr Gln Ile Thr Ala Ser Cys Ser Phe Thr Phe  
 35 40 45

Leu Xaa  
 50

<210> 467  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals stop translation

<400> 467  
 Met Trp Gly Cys Ser Gly Leu Gly His Arg Thr Val Ser Phe Leu Leu  
 1 5 10 15

Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu Ile  
 20 25 30

Pro Ile Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro  
 35 40 45

Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr  
 50 55 60

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Ser Cys Pro Leu Pro Arg Xaa  
65 70

<210> 468  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals stop translation

<400> 468  
Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn Pro Pro  
1 5 10 15

Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser Phe Tyr Ala Ser Cys  
20 25 30

Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val  
35 40 45

Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys Xaa  
50 55

<210> 469  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE  
 <222> (305)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (316)  
 <223> Xaa equals stop translation

<400> 471

Met	Ser	Thr	Lys	Lys	Leu	Cys	Ile	Val	Gly	Gly	Ile	Leu	Leu	Val	Phe
1				5					10					15	
Gln	Ile	Ile	Ala	Phe	Leu	Val	Gly	Gly	Leu	Ile	Ala	Pro	Gly	Pro	Thr
			20					25					30		
Thr	Ala	Val	Ser	Tyr	Met	Ser	Val	Lys	Cys	Val	Asp	Ala	Arg	Lys	Asn
		35					40					45			
His	His	Lys	Thr	Lys	Trp	Phe	Val	Pro	Trp	Gly	Pro	Asn	His	Cys	Asp
	50					55					60				
Lys	Ile	Arg	Asp	Ile	Glu	Ala	Ile	Pro	Arg	Glu	Ile	Glu	Ala	Asn	
65					70				75					80	
Asp	Ile	Val	Phe	Ser	Val	His	Ile	Pro	Leu	Pro	His	Met	Glu	Met	Ser
				85					90					95	
Pro	Trp	Phe	Gln	Phe	Met	Xaa	Phe	Ile	Leu	Gln	Leu	Asp	Ile	Ala	Phe
			100					105					110		
Lys	Leu	Asn	Asn	Gln	Ile	Arg	Glu	Asn	Ala	Glu	Val	Ser	Met	Asp	Val
		115					120					125			
Ser	Leu	Ala	Tyr	Arg	Asp	Asp	Ala	Phe	Ala	Glu	Trp	Thr	Glu	Met	Ala
	130					135					140				
His	Glu	Arg	Val	Pro	Arg	Lys	Leu	Lys	Cys	Thr	Phe	Thr	Ser	Pro	Lys
145					150					155					160
Thr	Pro	Glu	His	Gly	Gly	Pro	Val	Thr	Met	Asn	Val	Met	Ser	Phe	Leu
				165					170					175	
Ser	Trp	Lys	Leu	Gly	Leu	Trp	Pro	Met	Lys	Phe	Tyr	Leu	Leu	Asn	Ile
		180						185					190		
Arg	Leu	Pro	Val	Asn	Glu	Lys	Lys	Lys	Ile	Asn	Val	Gly	Ile	Gly	Glu
		195					200					205			
Ile	Lys	Asp	Ile	Arg	Leu	Val	Gly	Ile	His	Gln	Asn	Gly	Gly	Phe	Thr
	210					215					220				
Lys	Val	Trp	Phe	Ala	Met	Lys	Thr	Phe	Leu	Thr	Pro	Ser	Ile	Phe	Ile
225					230					235					240
Ile	Met	Val	Trp	Tyr	Trp	Arg	Arg	Ile	Thr	Met	Met	Ser	Arg	Pro	Pro
				245					250					255	

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Val Leu Leu Glu Lys Val Ile Phe Ala Leu Gly Ile Ser Met Thr Phe  
260 265 270

Ile Asn Ile Pro Val Glu Trp Phe Ser Ile Gly Phe Asp Trp Thr Trp  
275 280 285

Met Leu Leu Phe Gly Asp Ile Arg Gln Ala Ser Ser Met Xaa Cys Phe  
290 295 300

Xaa Pro Ser Gly Ser Ser Ser Val Ala Ser Thr Xaa  
305 310 315

<210> 472

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 472

Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly  
1 5 10 15

Pro Gln Gly Pro Gly Pro Ser Xaa  
20

<210> 473

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals stop translation

<400> 473

Met Pro Ser Gly Ala Cys Cys Ser Pro Xaa  
1 5 10

<210> 474

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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Asn Xaa

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<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 477  
Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val Ile Cys Tyr  
1 5 10 15

Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val Tyr Ser Gly  
35 40 45

Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser Thr Phe Pro  
65 70 75 80

Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro  
100 105 110

Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln  
115 120 125

Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys  
130 135 140

Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu  
145 150 155 160

Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met Xaa  
165 170

<210> 478  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals stop translation

<400> 478  
 Met Cys Ile His Val Phe Met Xaa Val Leu Trp Val Leu Phe Leu Leu  
           1                  5                  10                  15  
 Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Xaa Asn Cys Phe Ser Val  
                   20                  25                  30  
 Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu  
           35                  40                  45  
 Leu Asn Arg His Gln Gly Pro Met Lys Pro Lys Asp Xaa  
           50                  55                  60

<210> 479  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals stop translation

<400> 479  
 Gly Arg Xaa  
           1

<210> 480  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals stop translation

<400> 480

Met	Phe	His	Val	Leu	Met	Ala	Gln	Val	Thr	Xaa	Val	Ile	Ile	Thr	Thr
1				5					10					15	

Val	Ser	Val	Leu	Val	Phe	Asp	Phe	Arg	Pro	Ser	Leu	Glu	Phe	Phe	Leu
			20					25					30		

Glu	Ala	Xaa	Ser	Val	Xaa	Leu	Ser	Ile	Phe	Ile	Tyr	Asn	Ala	Ser	Lys
		35						40					45		

Pro	Gln	Val	Pro	Glu	Tyr	Ala	Pro	Arg	Gln	Glu	Arg	Ile	Arg	Asp	Leu
	50					55					60				

Ser	Gly	Asn	Leu	Trp	Glu	Arg	Ser	Ser	Gly	Asp	Gly	Glu	Glu	Leu	Glu
	65					70				75				80	

Arg	Leu	Thr	Lys	Pro	Lys	Ser	Asp	Glu	Ser	Asp	Glu	Asp	Thr	Phe	Xaa
				85					90					95	

<210> 481

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals stop translation

<400> 481

Met	Arg	Gly	Pro	Ala	Gln	Ala	Lys	Leu	Leu	Pro	Gly	Ser	Ala	Ile	Gln
1				5						10				15	

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<210> 482
<211> 623
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (575)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 482
Met Phe Met Arg Ile Ala Lys Ala Tyr Ala Ala Leu Thr Asp Glu Glu
  1             5             10             15

Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp Gly Pro Gln Ala
      20             25             30

Thr Ser Phe Gly Ile Ala Leu Pro Ala Trp Ile Val Asp Gln Lys Asn
      35             40             45

Ser Ile Leu Val Leu Leu Val Tyr Gly Leu Ala Phe Met Val Ile Leu
```

50                      55                      60  
 Pro Val Val Val Gly Ser Trp Trp Tyr Arg Ser Ile Arg Tyr Ser Gly  
 65                      70                      75                      80  
 Asp Gln Ile Leu Ile Arg Thr Thr Gln Ile Tyr Thr Tyr Phe Val Tyr  
                     85                      90                      95  
 Lys Thr Arg Asn Met Asp Met Lys Arg Leu Ile Met Val Leu Xaa Gly  
                     100                      105                      110  
 Ala Ser Glu Phe Asp Pro Gln Tyr Asn Lys Asp Ala Thr Ser Arg Pro  
                     115                      120                      125  
 Thr Asp Asn Ile Leu Ile Pro Gln Leu Ile Arg Glu Ile Gly Ser Ile  
                     130                      135                      140  
 Asn Leu Lys Lys Asn Glu Pro Pro Leu Thr Cys Pro Tyr Ser Leu Lys  
 145                      150                      155                      160  
 Ala Arg Val Leu Leu Leu Ser His Leu Ala Arg Met Lys Ile Pro Glu  
                     165                      170                      175  
 Thr Leu Glu Glu Asp Gln Gln Phe Met Leu Lys Lys Cys Pro Ala Leu  
                     180                      185                      190  
 Leu Gln Glu Met Val Asn Val Ile Cys Gln Leu Ile Val Met Ala Arg  
                     195                      200                      205  
 Asn Arg Glu Glu Arg Glu Phe Arg Ala Pro Thr Leu Ala Ser Leu Glu  
                     210                      215                      220  
 Asn Cys Met Lys Leu Ser Gln Met Ala Val Gln Gly Leu Gln Gln Phe  
 225                      230                      235                      240  
 Lys Ser Pro Leu Leu Gln Leu Pro His Ile Glu Glu Asp Asn Leu Arg  
                     245                      250                      255  
 Arg Val Ser Asn His Lys Lys Tyr Lys Ile Lys Thr Ile Gln Asp Leu  
                     260                      265                      270  
 Val Ser Leu Lys Glu Ser Asp Arg His Thr Leu Leu His Phe Leu Glu  
                     275                      280                      285  
 Asp Glu Lys Tyr Glu Glu Val Met Ala Val Leu Gly Ser Phe Pro Tyr  
                     290                      295                      300  
 Val Thr Met Asp Ile Lys Ser Gln Val Leu Asp Asp Glu Asp Ser Asn  
 305                      310                      315                      320  
 Asn Ile Thr Val Gly Ser Leu Val Thr Val Leu Val Lys Leu Thr Arg  
                     325                      330                      335  
 Gln Thr Met Ala Glu Val Phe Glu Lys Glu Gln Ser Ile Cys Ala Ala  
                     340                      345                      350  
 Glu Glu Gln Pro Ala Glu Asp Gly Gln Gly Glu Thr Asn Lys Asn Arg  
                     355                      360                      365

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Thr Lys Gly Gly Trp Gln Gln Lys Ser Lys Gly Pro Lys Lys Thr Ala  
 370 375 380  
 Lys Ser Lys Lys Lys Lys Pro Leu Lys Lys Lys Pro Thr Pro Val Leu  
 385 390 395 400  
 Leu Pro Gln Ser Lys Gln Gln Lys Gln Lys Gln Ala Asn Gly Val Val  
 405 410 415  
 Gly Asn Glu Ala Ala Val Lys Glu Asp Glu Glu Glu Val Ser Asp Lys  
 420 425 430  
 Gly Ser Asp Ser Glu Glu Glu Glu Thr Asn Arg Asp Ser Gln Ser Glu  
 435 440 445  
 Lys Asp Asp Gly Ser Asp Arg Asp Ser Asp Arg Glu Gln Asp Glu Lys  
 450 455 460  
 Gln Asn Lys Asp Asp Glu Ala Glu Trp Gln Glu Leu Gln Gln Ser Ile  
 465 470 475 480  
 Gln Arg Lys Glu Arg Ala Leu Leu Glu Thr Lys Ser Lys Ile Thr His  
 485 490 495  
 Pro Val Tyr Ser Leu Tyr Phe Pro Glu Glu Lys Gln Glu Trp Trp Trp  
 500 505 510  
 Leu Tyr Ile Ala Asp Arg Lys Glu Gln Thr Leu Ile Ser Met Pro Tyr  
 515 520 525  
 His Val Cys Thr Leu Lys Asp Thr Glu Glu Val Glu Leu Lys Phe Pro  
 530 535 540  
 Ala Pro Gly Lys Pro Gly Asn Tyr Gln Tyr Thr Val Phe Leu Arg Ser  
 545 550 555 560  
 Asp Ser Tyr Met Gly Leu Asp Gln Ile Lys Pro Leu Glu Val Xaa Lys  
 565 570 575  
 Phe Met Arg Leu Lys Pro Val Pro Glu Asn His Pro Gln Trp Asp Thr  
 580 585 590  
 Ala Ile Glu Gly Asp Glu Asp Gln Glu Asp Ser Glu Gly Phe Glu Asp  
 595 600 605  
 Ser Phe Glu Gly Gly Arg Gly Arg Glu Glu Gly Arg Trp Trp Thr  
 610 615 620

<210> 483  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)

00933757 "032001



<210>	487
<211>	19

<212> PRT  
<213> Homo sapiens

<400> 487  
Glu Asn Met Ile Cys Val Lys Cys Leu Pro Gln Tyr Pro Glu His Ser  
1 5 10 15

Lys His Val

<210> 488  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 488  
Ala Arg Val Ala Phe His Leu Ile Cys Arg Tyr Ile Leu Pro Thr Val  
1 5 10 15

Tyr Cys His Val  
20

<210> 489  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 489  
Glu Leu Val Glu Ser Pro Gly Ala Ala Gly Asn Ser Ala Arg Ser Gly  
1 5 10 15

Asn Val Val Cys  
20

<210> 490  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 490  
Phe Lys Lys Leu Val Asn Pro Arg Xaa Gln Gly Ile Arg His Glu Glu  
1 5 10 15

Glu Ala Val Ser Trp Gln Glu Arg Arg  
20 25

<210> 491  
<211> 206  
<212> PRT

00932767.082201

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 491

Ile Ser Val Leu Xaa Tyr Pro His Cys Val Val His Glu Leu Pro Glu  
1 5 10 15

Leu Thr Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp  
20 25 30

Arg Asn Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu  
35 40 45

Thr Lys Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser  
50 55 60

Ala Pro Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln  
65 70 75 80

Leu Tyr Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg  
85 90 95

Gln Trp Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys  
100 105 110

Val Arg His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp  
115 120 125

Ala Arg Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn  
130 135 140

Ile Glu Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro  
145 150 155 160

Asp Phe Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg  
165 170 175

Val Asp Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu  
180 185 190

Arg Glu Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu  
195 200 205

<210> 492

<211> 507

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

05033767 "000000"

His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn

Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser

35 40 45

Arg Glu  
50

<210> 494  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 494  
Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu Thr Phe  
1 5 10 15  
Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His Pro Gln  
20 25 30  
Thr Asp Arg Leu Xaa Cys Pro Lys Gly Leu Pro Trp Xaa  
35 40 45

<210> 495  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 495  
Pro Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg  
1 5 10 15  
Ser Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val  
20 25 30  
Gly Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His  
35 40 45  
Lys Tyr Thr  
50

<210> 496  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 496  
Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu Arg Ser



1                    5                    10                    15  
 Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala Glu Thr  
                   20                    25                    30

Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile Ala  
           35                    40                    45

<210> 497  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 497  
 Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys Thr  
   1                    5                    10                    15

Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro Thr  
           20                    25                    30

Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His Lys  
           35                    40                    45

<210> 498  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 498  
 Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Lys  
   1                    5                    10                    15

His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln His  
           20                    25                    30

Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn Gln  
           35                    40                    45

Asn Ile  
       50

<210> 499  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 499  
 Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu Asp Tyr Pro  
   1                    5                    10                    15

His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu Ser Leu Glu  
           20                    25                    30

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Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu  
35 40 45



His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly Asp  
 130 135 140  
 Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys Leu Asp  
 145 150 155 160  
 Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp Leu Asp  
 165 170 175  
 Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val Ser Leu Ala  
 180 185 190  
 Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe Gln Glu Met  
 195 200 205  
 Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly Gln Ala Ala  
 210 215 220  
 Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly Leu Leu Gln  
 225 230 235 240  
 Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu Val Asn Leu  
 245 250 255  
 Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val Thr Asn Arg  
 260 265 270  
 Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile Lys  
 275 280 285  
 Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln Tyr  
 290 295 300  
 Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser Gly Pro  
 305 310 315

&lt;210&gt; 505

&lt;211&gt; 261

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 505

Arg Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln  
 1 5 10 15

Arg Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro  
 20 25 30

Glu Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu Ser  
 35 40 45

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 102280.292E36

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<210> 506
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

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&lt;400&gt; 506

Met Ala Pro Pro Ala Pro Gly Pro Ala Ser Gly Gly Ser Gly Glu Val  
 1 5 10 15

Asp Glu Leu Phe Asp Val Lys Asn Ala Phe Tyr Ile Gly Ser Tyr Gln  
 20 25 30

Gln Cys Ile Asn Glu Ala Xaa Xaa Val Lys Leu Ser Ser Pro Glu Arg  
 35 40 45

&lt;210&gt; 507

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 507

Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln Arg  
 1 5 10 15

Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro Glu  
 20 25 30

Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu Ser  
 35 40 45

&lt;210&gt; 508

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 508

Arg Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg Ser  
 1 5 10 15

Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile Tyr  
 20 25 30

Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly  
 35 40 45

&lt;210&gt; 509

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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&lt;400&gt; 509

Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys Leu  
 1 5 10 15

Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp Leu  
 20 25 30

Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val Ser  
 35 40 45

&lt;210&gt; 510

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 510

Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe Gln  
 1 5 10 15

Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly Gln  
 20 25 30

Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly  
 35 40 45

&lt;210&gt; 511

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 511

Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu  
 1 5 10 15

Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val  
 20 25 30

Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro  
 35 40 45

&lt;210&gt; 512

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 512

Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val  
 1 5 10 15

Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser Gly Pro  
 20 25 30

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<400> 515  
Gly Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys  
1 5 10 15  
Leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp  
20 25 30  
Leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val



35

40

45

<210> 516  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 516  
 Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe  
 1 5 10 15  
 Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly  
 20 25 30  
 Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu  
 35 40 45

<210> 517  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 517  
 Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr  
 1 5 10 15  
 Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu  
 20 25 30  
 Val Thr Asn Arg Tyr Leu  
 35

<210> 518  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 518  
 Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile Lys Glu Tyr  
 1 5 10 15  
 Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln Tyr Ala Pro  
 20 25 30  
 Ser Ala

<210> 519  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 519  
 Asn Arg Tyr Tyr Arg Glu Ser Trp Ser Leu Gln Val Pro Val Arg Asn

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 1002380 2972550



<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 522  
 Asp Ser Val Lys Tyr Thr Leu Val Val Asp Glu His Ala Gln Leu Glu  
 1 5 10 15  
 Leu Val Ser Leu Arg Arg Ala Ser Glu Thr Thr Val Thr Arg Val Thr  
 20 25 30  
 Leu Pro Pro Ser  
 35

<210> 523  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 523  
 Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile  
 1 5 10 15  
 Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe  
 20 25 30  
 Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro  
 35 40 45  
 Lys Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys  
 50 55 60  
 Ser Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu  
 65 70 75 80  
 Lys Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn  
 85 90 95  
 Phe Tyr Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile  
 100 105 110  
 Asp Val Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala Tyr Phe  
 115 120 125  
 Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp Val Ala  
 130 135 140  
 Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg  
 145 150 155

<210> 524  
 <211> 176  
 <212> PRT  
 <213> Homo sapiens

<400> 524

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<210> 525
<211> 49
<212> PRT
<213> Homo sapiens
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<210> 526  
<211> 49



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 526

Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys Ser  
 1 5 10 15

Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu Lys  
 20 25 30

Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn Phe  
 35 40 45

Tyr

&lt;210&gt; 527

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 527

Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile Asp Val  
 1 5 10 15

Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala  
 20 25

&lt;210&gt; 528

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 528

Tyr Phe Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp  
 1 5 10 15

Val Ala Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg  
 20 25 30

&lt;210&gt; 529

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 529

Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu Arg Glu  
 1 5 10 15

Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu Leu Gln  
 20 25 30

Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr  
 35 40 45

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<210> 530  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 530  
 Glu Ser Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser  
   1                  5                  10                  15  
 Leu Asn Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu  
                   20                  25                  30  
 Ala Trp Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg  
           35                  40                  45  
 Ser Glu  
       50

<210> 531  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 531  
 Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser Pro Ser  
   1                  5                  10                  15  
 Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu Pro Ile  
                   20                  25                  30  
 Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile Asn  
           35                  40                  45

<210> 532  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 532  
 Gln Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser Asp  
   1                  5                  10                  15  
 Ser Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu Gly  
           20                  25                  30

Lys

<210> 533  
 <211> 324  
 <212> PRT  
 <213> Homo sapiens

<400> 533

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Met 1	Ser	Asp	Asn 5	Glu	Ser	Asp	Ile 10	Glu	Asp	Glu	Asp	Leu	Lys 15	Leu
Glu	Leu	Arg 20	Arg	Leu	Arg	Asp	Lys 25	His	Leu	Lys	Glu	Ile 30	Asp	Leu
Gln	Ser	Arg 35	Gln	Lys	His	Glu	Ile 40	Glu	Ser	Leu	Tyr	Thr 45	Lys	Leu
Lys	Val 50	Pro	Pro	Ala	Val	Ile 55	Ile	Pro	Pro	Ala	Ala 60	Pro	Leu	Ser
Arg 65	Arg	Arg	Arg	Pro	Thr 70	Lys	Ser	Lys	Gly	Ser 75	Lys	Ser	Ser	Arg
Ser	Ser	Leu	Gly	Asn 85	Lys	Ser	Pro	Gln	Leu 90	Ser	Gly	Asn	Leu	Ser
Gln	Ser	Ala 100	Ala	Ser	Val	Leu	His	Pro 105	Gln	Gln	Thr	Leu	His 110	Pro
Gly	Asn 115	Ile	Pro	Glu	Ser	Gly	Gln 120	Asn	Gln	Leu	Leu	Gln 125	Pro	Leu
Pro 130	Ser	Pro	Ser	Ser	Asp	Asn 135	Leu	Tyr	Ser	Ala	Phe 140	Thr	Ser	Asp
Ala 145	Ile	Ser	Val	Pro	Ser 150	Leu	Ser	Ala	Pro	Gly 155	Gln	Gly	Thr	Ser
Thr	Asn	Thr	Val 165	Gly	Ala	Thr	Val	Asn 170	Ser	Gln	Ala	Ala	Gln 175	Ala
Pro	Pro	Ala 180	Met	Thr	Ser	Ser	Arg	Lys 185	Gly	Thr	Phe	Thr 190	Asp	Asp
His	Lys 195	Leu	Val	Asp	Asn	Trp	Ala 200	Arg	Asp	Ala	Met 205	Asn	Leu	Ser
Arg 210	Arg	Gly	Ser	Lys	Gly	His 215	Met	Asn	Tyr	Glu	Gly 220	Pro	Gly	Met
Arg 225	Lys	Phe	Ser	Ala 230	Pro	Gly	Gln	Leu	Cys	Ile 235	Ser	Met	Thr	Ser
Leu	Gly	Gly	Ser	Ala 245	Pro	Ile	Ser	Ala	Ala 250	Ser	Ala	Thr	Ser	Leu
His	Phe	Thr 260	Lys	Ser	Met	Cys	Pro	Pro 265	Gln	Gln	Tyr	Gly 270	Phe	Pro
Thr	Pro 275	Phe	Gly	Ala	Gln	Trp	Ser 280	Gly	Thr	Gly	Gly 285	Pro	Ala	Pro
Pro 290	Leu	Gly	Gln	Phe	Gln	Pro 295	Val	Gly	Thr	Ala	Ser 300	Leu	Gln	Asn
Asn	Ile	Ser	Asn	Leu	Gln	Lys	Ser	Ile	Ser	Asn	Pro	Pro	Gly	Ser

Leu Arg Thr Thr

```

<400> 534
Ile Gln Asp Leu Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr
  1              5              10              15

Thr Lys Leu Gly Lys Val Pro Pro Ala Val Ile Ile Pro Pro Ala Ala
      20              25              30

Pro Leu Ser Gly Arg Arg Arg Arg Pro Thr Lys Ser Lys Gly Ser Lys
      35              40              45

Ser Ser Arg Ser Ser Ser Leu Gly Asn Lys Ser Pro Gln Leu Ser Gly
      50              55              60

Asn Leu Ser Gly Gln Ser Ala Ala Ser Val Leu His Pro Gln Gln Thr
      65              70              75              80

Leu His Pro Pro Gly Asn Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu
      85              90              95

Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe
      100              105              110

Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln
      115              120              125

Gly Thr Ser Ser Thr
      130

```

```

<400> 535
Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln
 1             5             10             15

Gly Thr Ser Ser Thr Asn Thr Val Gly Ala Thr Val Asn Ser Gln Ala
      20             25             30

Ala Gln Ala Gln Pro Pro Ala Met Thr Ser Ser Arg Lys Gly Thr Phe
      35             40             45

Thr Asp Asp Leu His
      50

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<210> 536
<211> 48
<212> PRT
<213> Homo sapiens
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<210> 537
<211> 31
<212> PRT
<213> Homo sapiens

<400> 537
Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe
  1                      5                      10                      15
Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly
          20                      25                      30

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<400> 538
Met Ser Ser Asp Asn Glu Ser Asp Ile Glu Asp Glu Asp Leu Lys Leu
  1                      5                      10                      15

Glu Leu Arg Arg Leu Arg Asp Lys His Leu Lys Glu Ile Gln Asp Leu
          20                      25                      30

Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr Thr Lys Leu Gly
          35                      40                      45

Lys Val Pro
      50

```

<400> 539

Arg Lys Phe Ser Ala Pro Gly Gln Leu Cys Ile Ser Met Thr

45

```

<400> 543
Ser Asn Leu Gly Gly Ser Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser
 1             5             10             15

Leu Gly His Phe Thr Lys Ser Met Cys Pro Pro Gln Gln Tyr Gly Phe
      20             25             30

Pro Ala Thr Pro Phe Gly Ala Gln Trp Ser Gly Thr Gly Gly
 35             40             45

```

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<210> 544
<211> 40
<212> PRT
<213> Homo sapiens

<400> 544
Pro Ala Pro Gln Pro Leu Gly Gln Phe Gln Pro Val Gly Thr Ala Ser
 1             5             10             15
Leu Gln Asn Phe Asn Ile Ser Asn Leu Gln Lys Ser Ile Ser Asn Pro
          20             25             30
Pro Gly Ser Asn Leu Arg Thr Thr
      35             40

```

```
<210> 545
<211> 57
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 545
Val Arg Val Ala Ala Ala Glu Ser Met Xaa Leu Leu Leu Glu Cys Ala
  1                      5                      10                      15
Xaa Val Arg Gly Pro Glu Tyr Leu Thr Gln Met Trp His Phe Met Cys
          20                      25                      30
Asp Ala Leu Ile Lys Ala Ile Gly Thr Glu Pro Asp Ser Asp Val Leu

```

35 40 45  
 Ser Glu Ile Met His Ser Phe Ala Lys  
 50 55

<210> 546  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Met Glu Ile Asn Asn Gln Asn Cys Phe Ile Val Ile Asp Leu Val Arg  
 1 5 10 15  
 Thr Val Met Glu Asn Gly Val Glu Gly Leu Leu Ile Phe Gly Ala Phe  
 20 25 30  
 Leu Pro Glu Ser Trp Leu Ile Gly Val Arg Cys Ser Ser Glu Pro Pro  
 35 40 45  
 Lys Ala Leu Leu Leu Ile Leu Ala His Ser Gln Lys Arg Arg Leu Asp  
 50 55 60  
 Gly Trp Ser Phe Ile Arg His Leu Arg Val His Tyr Cys Val Ser Leu  
 65 70 75 80  
 Thr Ile His Phe Ser  
 85

<210> 547  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 547  
 Gly Gly Arg Glu Ala Asn Lys Xaa Phe Phe Ile Glu Ser Cys Ile Ala  
 1 5 10 15  
 Leu Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala  
 20 25 30

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Glu Xaa Phe Phe Gly Xaa Thr Asn Glu Gln Val Val Glu Val Cys Thr  
           35                          40                          45  
 Asn Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp Asn Ser Thr  
       50                          55                          60  
 Leu Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly Cys Tyr Phe  
   65                          70                          75                          80  
 Gly Pro Ala Ala Leu Tyr Ile Trp Ala Val Gly Ile Leu Ala Ala Gly  
                   85                          90                          95  
 Gln Ser Ser Thr  
           100

<210> 548  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 548  
 Gly Gly Arg Glu Ala Asn Lys Xaa Phe Phe Ile Glu Ser Cys Ile Ala  
   1                  5                          10                          15  
 Leu Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala  
           20                          25                          30  
 Glu Xaa Phe Phe Gly Xaa Thr Asn Glu Gln Val Val Glu  
       35                          40                          45

<210> 549  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 549  
 Val Cys Thr Asn Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp  
   1                  5                          10                          15  
 Asn Ser Thr Leu Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly  
       20                          25                          30

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Gln Gln Asp Leu Ser Pro Trp Ala Ala Pro Val Gly Cys Pro Leu Xaa

```

<210> 552
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 552
Pro Thr Arg Cys Cys Thr Thr Gln Pro Cys Arg Ser Ser Ala Arg Arg
 1               5               10               15

Pro Cys Trp Val Pro Met Val Pro Ser Pro Glu Gly Arg Glu Xaa Gln
      20               25               30

Pro Thr Cys Pro Ser
      35

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```

<210> 553
<211> 363
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids

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Met 1	Lys	Arg	Ser	Leu 5	Asn	Glu	Asn	Ser	Ala 10	Arg	Ser	Thr	Ala	Gly 15	Cys
Leu	Pro	Val	Pro 20	Leu	Phe	Asn	Gln	Lys 25	Lys	Arg	Asn	Arg	Gln 30	Pro	Leu
Thr	Ser	Asn 35	Pro	Leu	Lys	Asp	Asp 40	Ser	Gly	Ile	Ser	Thr 45	Pro	Ser	Asp
Asn	Tyr 50	Asp	Phe	Pro	Pro	Leu 55	Pro	Thr	Asp	Trp	Ala 60	Trp	Glu	Ala	Val
Asn 65	Pro	Glu	Xaa	Ala 70	Pro	Val	Met	Lys	Thr	Val 75	Asp	Thr	Gly	Gln	Ile 80
Pro	His	Ser	Val	Ser 85	Arg	Pro	Leu	Arg	Ser 90	Gln	Asp	Ser	Val	Phe	Asn
Ser	Ile	Gln 100	Ser	Asn	Thr	Gly	Arg	Ser 105	Gln	Gly	Gly	Trp 110	Ser	Tyr	Arg
Asp	Gly	Asn 115	Lys	Asn	Thr	Ser	Leu 120	Lys	Thr	Trp	Xaa	Lys 125	Asn	Asp	Phe
Lys 130	Pro	Gln	Cys	Lys	Arg	Thr 135	Asn	Leu	Val	Ala	Asn 140	Asp	Gly	Lys	Asn
Ser 145	Cys	Pro	Met	Ser	Ser 150	Gly	Ala	Gln	Gln	Gln 155	Lys	Gln	Leu	Arg	Thr 160
Pro	Glu	Pro	Pro	Asn 165	Leu	Ser	Arg	Asn	Lys 170	Glu	Thr	Glu	Leu	Leu	Arg
Gln	Thr	His 180	Ser	Ser	Lys	Ile	Ser	Gly 185	Cys	Thr	Met	Arg 190	Gly	Leu	Asp
Lys	Asn 195	Ser	Ala	Leu	Gln	Thr	Leu 200	Lys	Pro	Asn	Phe	Gln 205	Gln	Asn	Gln
Tyr	Lys 210	Xaa	Gln	Met	Leu	Asp 215	Asp	Ile	Pro	Glu	Asp 220	Asn	Thr	Leu	Lys
Glu 225	Thr	Ser	Leu	Tyr	Gln 230	Leu	Gln	Phe	Lys	Glu 235	Lys	Ala	Ser	Ser	Leu 240
Arg	Ile	Ile	Ser	Ala 245	Val	Ile	Glu	Ser	Met 250	Lys	Tyr	Trp	Arg	Glu	His
Ala	Gln	Lys 260	Thr	Val	Leu	Leu	Phe	Glu 265	Val	Leu	Ala	Val 270	Leu	Asp	Ser
Ala	Val	Thr 275	Pro	Gly	Pro	Tyr	Tyr 280	Ser	Lys	Thr	Phe	Leu 285	Met	Arg	Asp
Gly	Lys 290	Asn	Thr	Leu	Pro	Cys 295	Val	Phe	Tyr	Glu	Ile 300	Asp	Arg	Glu	Leu



Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp  
305 310 315 320

Gln Lys Lys Asn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val  
325 330 335

Ser Glu Gln Lys Thr Phe Gln Ala Phe Val Lys Ile Ala Asp Val Glu  
340 345 350

Met Gln Tyr Tyr Ile Asn Val Met Asn Glu Thr  
355 360

<210> 554

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 554

Ser Gln Asp Ser Val Phe Asn Ser Ile Gln Ser Asn Thr Gly Arg Ser  
1 5 10 15

Gln Gly Gly Trp Ser Tyr Arg Asp Gly Asn Lys Asn Thr Ser Leu Lys  
20 25 30

Thr Trp Xaa Lys Asn Asp Phe Lys Pro Gln Cys Lys Arg  
35 40 45

<210> 555

<211> 36

<212> PRT

<213> Homo sapiens

<400> 555

Asn Lys Glu Thr Glu Leu Leu Arg Gln Thr His Ser Ser Lys Ile Ser  
1 5 10 15

Gly Cys Thr Met Arg Gly Leu Asp Lys Asn Ser Ala Leu Gln Thr Leu  
20 25 30

Lys Pro Asn Phe  
35

<210> 556

<211> 49

<212> PRT

<213> Homo sapiens

<400> 556

Ser Ser Leu Arg Ile Ile Ser Ala Val Ile Glu Ser Met Lys Tyr Trp

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1                      5                      10                      15  
 Arg Glu His Ala Gln Lys Thr Val Leu Leu Phe Glu Val Leu Ala Val  
                     20                      25                      30  
 Leu Asp Ser Ala Val Thr Pro Gly Pro Tyr Tyr Ser Lys Thr Phe Leu  
                     35                      40                      45

Met

<210> 557  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 557  
 Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp  
                     1                      5                      10                      15  
 Gln Lys Lys Asn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val  
                     20                      25                      30  
 Ser Glu Gln Lys Thr Phe Gln Ala Phe Val  
                     35                      40

<210> 558  
 <211> 370  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (320)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (334)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (337)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (339)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (341)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (350)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (352)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (355)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (360)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 558
Gly Val Phe Arg Pro Cys Val Cys Gly Arg Pro Ala Ser Leu Thr Cys
 1             5             10             15
Ser Pro Leu Asp Pro Glu Val Gly Pro Tyr Cys Asp Thr Pro Thr Met
          20             25             30
Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro Val
          35             40             45
His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys Thr
          50             55             60
Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg Gly
 65             70             75             80
Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His Arg
          85             90             95
Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp Val
          100             105             110
Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr Lys
          115             120             125
Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln Leu
          130             135             140
Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp Val
          145             150             155             160
Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu His
          165             170             175

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<210> 560



<211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His Arg  
           1                  5                  10                  15  
 Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp Val  
                   20                  25                  30  
 Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr Lys  
           35                  40                  45  
 Val Phe Gly Ser Lys Phe  
           50

<210> 561  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 561  
 Arg Glu Met Phe Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp  
           1                  5                  10                  15  
 Met Arg Ala Val Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg  
                   20                  25                  30  
 Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe Arg Asn Val Leu Asp  
           35                  40                  45  
 Ser Glu Asp Glu  
           50

<210> 562  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 562  
 His Phe Asp Gly Phe Val Val Glu Val Trp Asn Gln Leu Leu Ser Gln  
           1                  5                  10                  15  
 Lys Arg Val Gly Leu Ile His Met Leu Thr His Leu Ala Glu Ala Leu  
                   20                  25                  30  
 His Gln Ala Arg Leu Leu Ala Leu Leu Val Ile Pro Pro Ala Ile Thr  
           35                  40                  45  
 Pro Gly Thr Asp Gln Leu Gly Met  
           50                  55

<210> 563  
 <211> 47

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<211> 51

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<210> 568
<211> 270
<212> PRT
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&lt;213&gt; Homo sapiens

&lt;400&gt; 568

Ala Val Tyr Thr Tyr His Glu Lys Lys Lys Asp Thr Ala Ala Ser Gly  
 1 5 10 15

Tyr Gly Thr Gln Asn Ile Arg Leu Ser Arg Asp Ala Val Lys Asp Phe  
 20 25 30

Asp Cys Cys Cys Leu Ser Leu Gln Pro Cys His Asp Pro Val Val Thr  
 35 40 45

Pro Asp Gly Tyr Leu Tyr Glu Arg Glu Ala Ile Leu Glu Tyr Ile Leu  
 50 55 60

His Gln Lys Lys Glu Ile Ala Arg Gln Met Lys Ala Tyr Glu Lys Gln  
 65 70 75 80

Arg Gly Thr Arg Arg Glu Glu Gln Lys Glu Leu Gln Arg Ala Ala Ser  
 85 90 95

Gln Asp His Val Arg Gly Phe Leu Glu Lys Glu Ser Ala Ile Val Ser  
 100 105 110

Arg Pro Leu Asn Pro Phe Thr Ala Lys Ala Leu Ser Gly Thr Ser Pro  
 115 120 125

Asp Asp Val Gln Pro Gly Pro Ser Val Gly Pro Pro Ser Lys Asp Lys  
 130 135 140

Asp Lys Val Leu Pro Ser Phe Trp Ile Pro Ser Leu Thr Pro Glu Ala  
 145 150 155 160

Lys Ala Thr Lys Leu Glu Lys Pro Ser Arg Thr Val Thr Cys Pro Met  
 165 170 175

Ser Gly Lys Pro Leu Arg Met Ser Asp Leu Thr Pro Val His Phe Thr  
 180 185 190

Pro Leu Asp Ser Ser Val Asp Arg Val Gly Leu Ile Thr Arg Ser Glu  
 195 200 205

Arg Tyr Val Cys Ala Val Thr Arg Asp Ser Leu Ser Asn Ala Thr Pro  
 210 215 220

Cys Ala Val Leu Arg Pro Ser Gly Ala Val Val Thr Leu Glu Cys Val  
 225 230 235 240

Glu Lys Leu Ile Arg Lys Asp Met Val Asp Pro Val Thr Gly Asp Lys  
 245 250 255

Leu Thr Asp Arg Asp Ile Ile Val Leu Gln Arg Gly Gly Thr  
 260 265 270

&lt;210&gt; 569

&lt;211&gt; 54

&lt;212&gt; PRT

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<213> Homo sapiens

<400> 569

Tyr Leu Tyr Glu Arg Glu Ala Ile Leu Glu Tyr Ile Leu His Gln Lys  
1 5 10 15

Lys Glu Ile Ala Arg Gln Met Lys Ala Tyr Glu Lys Gln Arg Gly Thr  
20 25 30

Arg Arg Glu Glu Gln Lys Glu Leu Gln Arg Ala Ala Ser Gln Asp His  
35 40 45

Val Arg Gly Phe Leu Glu  
50

<210> 570

<211> 64

<212> PRT

<213> Homo sapiens

<400> 570

Phe Thr Ala Lys Ala Leu Ser Gly Thr Ser Pro Asp Asp Val Gln Pro  
1 5 10 15

Gly Pro Ser Val Gly Pro Pro Ser Lys Asp Lys Asp Lys Val Leu Pro  
20 25 30

Ser Phe Trp Ile Pro Ser Leu Thr Pro Glu Ala Lys Ala Thr Lys Leu  
35 40 45

Glu Lys Pro Ser Arg Thr Val Thr Cys Pro Met Ser Gly Lys Pro Leu  
50 55 60

<210> 571

<211> 56

<212> PRT

<213> Homo sapiens

<400> 571

Val His Phe Thr Pro Leu Asp Ser Ser Val Asp Arg Val Gly Leu Ile  
1 5 10 15

Thr Arg Ser Glu Arg Tyr Val Cys Ala Val Thr Arg Asp Ser Leu Ser  
20 25 30

Asn Ala Thr Pro Cys Ala Val Leu Arg Pro Ser Gly Ala Val Val Thr  
35 40 45

Leu Glu Cys Val Glu Lys Leu Ile  
50 55

<210> 572

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```
<400> 572
Met Ser Asp Leu Thr Pro Val His Phe Thr Pro Leu Asp Ser Ser Val
   1                               5               10                   15

Asp Arg Val Gly Leu Ile Thr Arg Ser Glu Arg Tyr Val Cys Ala Val
          20                      25              30

Thr Arg Asp Ser Leu Ser Asn Ala Thr Pro Cys Ala Val Leu Arg Pro
        35                          40                  45

Ser Gly Ala Val Val Thr Leu Glu Cys Val Glu Lys Leu Ile Arg Lys
    50                55              60

Asp Met
   65
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<210> 573
<211> 567
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (409)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 573
Met Asp Thr Ser Glu Asn Arg Pro Glu Asn Asp Val Pro Glu Pro Pro
  1              5              10              15

Met Pro Ile Ala Asp Gln Val Ser Asn Asp Asp Arg Pro Glu Gly Ser
      20              25              30

Val Glu Asp Glu Glu Lys Lys Glu Ser Ser Leu Pro Lys Ser Phe Lys
      35              40              45

Arg Lys Ile Ser Val Val Ser Ala Thr Lys Gly Val Pro Ala Gly Asn
      50              55              60

Ser Asp Thr Glu Gly Gly Gln Pro Gly Arg Lys Arg Arg Trp Gly Ala
      65              70              75              80

Ser Thr Ala Thr Thr Gln Lys Lys Pro Ser Ile Ser Ile Thr Thr Glu
      85              90              95

Ser Leu Lys Ser Leu Ile Pro Asp Ile Lys Pro Leu Ala Gly Gln Glu
      100              105              110

Ala Val Val Asp Leu His Ala Asp Asp Ser Arg Ile Ser Glu Asp Glu
      115              120              125

Thr Glu Arg Asn Gly Asp Asp Gly Thr His Asp Lys Gly Leu Lys Ile
      130              135              140

```

Cys Arg Thr Val Thr Gln Val Val Pro Ala Glu Gly Gln Glu Asn Gly  
 145 150 155 160  
 Gln Arg Glu Glu Glu Glu Glu Lys Glu Pro Glu Ala Glu Pro Pro  
 165 170 175  
 Val Pro Pro Gln Val Ser Val Glu Val Ala Leu Pro Pro Pro Ala Glu  
 180 185 190  
 His Glu Val Lys Lys Val Thr Leu Gly Asp Thr Leu Thr Arg Arg Ser  
 195 200 205  
 Ile Ser Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val  
 210 215 220  
 Arg Thr Ala Gln Val Pro Ser Pro Pro Arg Gly Lys Ile Ser Asn Ile  
 225 230 235 240  
 Val His Ile Ser Asn Leu Val Arg Pro Phe Thr Leu Gly Gln Leu Lys  
 245 250 255  
 Glu Leu Leu Gly Arg Thr Gly Thr Leu Val Glu Glu Ala Phe Trp Ile  
 260 265 270  
 Asp Lys Ile Lys Ser His Cys Phe Val Thr Tyr Ser Thr Val Glu Glu  
 275 280 285  
 Ala Val Ala Thr Arg Thr Ala Leu His Gly Val Lys Trp Pro Gln Ser  
 290 295 300  
 Asn Pro Lys Phe Leu Cys Ala Asp Tyr Ala Glu Gln Asp Glu Leu Asp  
 305 310 315 320  
 Tyr His Arg Gly Leu Leu Val Asp Arg Pro Ser Glu Thr Lys Thr Glu  
 325 330 335  
 Glu Gln Gly Ile Pro Arg Pro Leu His Pro Pro Pro Pro Pro Val  
 340 345 350  
 Gln Pro Pro Gln His Pro Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala  
 355 360 365  
 Val Arg Glu Gln Trp Ala Glu Arg Glu Arg Glu Met Glu Arg Arg Glu  
 370 375 380  
 Arg Thr Arg Ser Glu Arg Glu Trp Asp Arg Asp Lys Val Arg Glu Gly  
 385 390 395 400  
 Pro Arg Ser Arg Ser Arg Ser Arg Xaa Arg Arg Arg Lys Glu Arg Ala  
 405 410 415  
 Lys Ser Lys Glu Lys Lys Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu  
 420 425 430  
 Pro Pro Ala Lys Leu Leu Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala  
 435 440 445

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Pro Cys Ile Tyr Trp Leu Pro Leu Thr Asp Ser Gln Ile Val Gln Lys  
450 455 460

Glu Ala Glu Arg Ala Glu Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys  
465 470 475 480

Glu Gln Glu Glu Glu Glu Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg  
485 490 495

Glu Arg Asn Arg Gln Leu Glu Arg Glu Lys Arg Arg Glu His Ser Arg  
500 505 510

Glu Arg Asp Arg Glu Arg Glu Arg Glu Arg Glu Arg Asp Arg Gly Asp  
515 520 525

Arg Asp Arg Asp Arg Glu Arg Asp Arg Glu Arg Gly Arg Glu Arg Asp  
530 535 540

Arg Arg Asp Thr Lys Arg His Ser Arg Ser Arg Ser Arg Ser Thr Pro  
545 550 555 560

Val Arg Asp Arg Gly Gly Arg  
565

<210> 574

<211> 48

<212> PRT

<213> Homo sapiens

<400> 574

Glu Asn Asp Val Pro Glu Pro Pro Met Pro Ile Ala Asp Gln Val Ser  
1 5 10 15

Asn Asp Asp Arg Pro Glu Gly Ser Val Glu Asp Glu Glu Lys Lys Glu  
20 25 30

Ser Ser Leu Pro Lys Ser Phe Lys Arg Lys Ile Ser Val Val Ser Ala  
35 40 45

<210> 575

<211> 37

<212> PRT

<213> Homo sapiens

<400> 575

Val Asp Leu His Ala Asp Asp Ser Arg Ile Ser Glu Asp Glu Thr Glu  
1 5 10 15

Arg Asn Gly Asp Asp Gly Thr His Asp Lys Gly Leu Lys Ile Cys Arg  
20 25 30

Thr Val Thr Gln Val  
35

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<210> 576  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 576  
 Pro Gln Val Ser Val Glu Val Ala Leu Pro Pro Pro Ala Glu His Glu  
 1 5 10 15  
 Val Lys Lys Val Thr Leu Gly Asp Thr Leu Thr Arg Arg Ser Ile Ser  
 20 25 30  
 Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val Arg Thr  
 35 40 45  
 Ala Gln Val Pro Ser Pro Pro  
 50 55

<210> 577  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 577  
 Leu Lys Glu Leu Leu Gly Arg Thr Gly Thr Leu Val Glu Glu Ala Phe  
 1 5 10 15  
 Trp Ile Asp Lys Ile Lys Ser His Cys Phe Val Thr Tyr Ser Thr Val  
 20 25 30  
 Glu Glu Ala Val Ala Thr Arg Thr Ala Leu His Gly Val Lys Trp Pro  
 35 40 45  
 Gln Ser Asn Pro Lys Phe Leu  
 50 55

<210> 578  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 578  
 Val Asp Arg Pro Ser Glu Thr Lys Thr Glu Glu Gln Gly Ile Pro Arg  
 1 5 10 15  
 Pro Leu His Pro Pro Pro Pro Pro Val Gln Pro Pro Gln His Pro  
 20 25 30  
 Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala Val Arg Glu Gln Trp Ala  
 35 40 45  
 Glu Arg Glu Arg Glu  
 50

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<210> 579  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 579  
 Glu Trp Asp Arg Asp Lys Val Arg Glu Gly Pro Arg Ser Arg Ser Arg  
 1 5 10 15  
 Ser Arg Xaa Arg Arg Lys Glu Arg Ala Lys Ser Lys Glu Lys Lys  
 20 25 30  
 Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu Pro Pro Ala Lys Leu Leu  
 35 40 45  
 Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala Pro  
 50 55

<210> 580  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
 Pro Leu Thr Asp Ser Gln Ile Val Gln Lys Glu Ala Glu Arg Ala Glu  
 1 5 10 15  
 Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys Glu Gln Glu Glu Glu  
 20 25 30  
 Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg Glu Arg Asn Arg Gln Leu  
 35 40 45  
 Glu Arg Glu Lys Arg Arg Glu His Ser Arg Glu Arg Asp Arg Glu Arg  
 50 55 60

<210> 581  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 581  
 Leu Asp Val Pro Leu Ala Ser Arg Ser Pro Glu Phe Pro Leu Pro Leu  
 1 5 10 15  
 Met Thr Gln Ser Glu Leu Pro Arg Cys Pro Pro His Pro Gly Ala Arg  
 20 25 30

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<210> 582  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 582  
 Leu Ala Thr Leu Ser Ile Ser Pro Ile Trp Ser Val Leu Ser Leu  
 1 5 10 15

<210> 583  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Gly Cys Asp Ser Cys Pro Pro His Leu Pro Arg Glu Ala Phe Ala Gln  
 1 5 10 15  
 Asp Thr Gln Ala Glu Gly Glu Cys Ser Ser Arg Ala Glu Arg Ala Asp  
 20 25 30  
 Met Cys Pro Asp Ala Pro Pro Ser Gln Glu Val Pro Glu Gly Pro Gly  
 35 40 45  
 Ala Ala Pro  
 50

<210> 584  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
 Arg Gly Trp Leu Pro Ser Ser Cys Leu Ser Cys Ala Leu Arg Val Cys  
 1 5 10 15  
 Pro Asp Ser Ser Ser Thr Gln Ala Met Gly Met Leu Leu Ala Phe Trp  
 20 25 30  
 Leu Pro Gly Ala Ser Trp Gln Glu Ala Ala Arg Gly Gln Tyr Ser Glu  
 35 40 45  
 Asp Glu Asp Thr Asp Thr Asp Glu Tyr Lys Glu Ala Lys Ala Ser Ile  
 50 55 60  
 Asn Pro Val Thr Gly Arg Val Glu Glu Lys Pro Pro Asn Pro Met Glu  
 65 70 75 80  
 Gly Met Thr Glu Glu Gln Lys Glu His Glu Ala  
 85 90

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<400> 587
Lys Thr His Pro Arg Ala Leu Trp Ser Ala Gly Pro Ser Cys Ala Leu
 1             5             10             15
Cys Pro Gly Gly Ser Gly Xaa Thr Ser Pro Pro Gln Gly Ala Pro Arg
                20             25             30
Gly Ile Xaa Trp Asp Arg Cys Pro Gln Ile Gln Val Leu Glu Gly Gln
 35             40             45

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Arg Val Arg Phe Pro Ser Gln Pro Gln His Pro Ser His Leu Ala Pro  
 50 55 60

Arg Gly Gly Cys Gly Trp Arg Pro Asp Ser Arg Pro Leu Leu Pro Thr  
 65 70 75 80

Pro Ser Gly Leu Ser Ser Phe Phe Pro Leu Asp Ala Gln Cys Trp Pro  
 85 90 95

Trp Arg Thr Val Ser Trp Arg  
 100

<210> 588  
 <211> 200  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 588  
 Ala Gly Ala Pro Gly Gln Gln Ala Arg Leu Gln Tyr Leu Leu Ser Phe  
 1 5 10 15

Gln Gly Glu Gly Ala Pro His Glu Xaa Gly Ala Thr Gly Glu Gly Gly  
 20 25 30

Asp Gly Ala Trp Glu Ala Cys Xaa Cys Xaa Arg Cys Leu Leu Asn Trp  
 35 40 45

Gln Ala Gly Gly Trp Gly Leu Gln Leu Ser Leu Met Trp Leu His Arg  
 50 55 60

Gly Pro Leu Arg Pro Pro Gly Val Arg Trp Thr Pro Trp Ala Phe Leu  
 65 70 75 80

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<400> 589  
Met Gln Leu Leu Phe Leu Leu Pro His Pro Ser Pro Gln Leu His Ala  
1 5 10 15  
Ser Leu Pro His Ser Ala Ala Leu Pro Cys Pro Arg Gly Glu Ser Leu  
20 25 30

Thr Thr Ala Ser Pro Ala Gly Ala Ala Gly Arg Xaa Asp Ala Val Pro  
35 40 45

Arg Cys Arg His Gln Ala Gly Arg Gly Trp Val Pro Arg Gly Pro Cys  
50 55 60

Glu Arg Gly Gly Gly Asp Arg Gly Lys Pro Arg Ala Val Ala Trp Asp  
65 70 75 80

Xaa Gly Ser Leu Arg Trp Ala Val Trp Ser Ala Arg Ala Gly Gln Gly  
85 90 95

Arg Ser Ser Glu Pro Ala Pro Leu Ala Ser Arg Arg Gly Tyr Ser Thr  
100 105 110

Cys Cys Leu Ser Arg Gly Lys Gly Leu Pro Met Arg Xaa Gly Arg Arg  
115 120 125

Gly Arg Gly Val Met Val Pro Gly Lys Pro Ala Cys Ala Xaa Gly Ala  
130 135 140

Cys  
145

<210> 590

<211> 34

<212> PRT

<213> Homo sapiens

<400> 590

Gln His Pro Ser His Leu Ala Pro Arg Gly Gly Cys Gly Trp Arg Pro  
1 5 10 15

Asp Ser Arg Pro Leu Leu Pro Thr Pro Ser Gly Leu Ser Ser Phe Phe  
20 25 30

Pro Leu

<210> 591

<211> 30

<212> PRT

<213> Homo sapiens

<400> 591

Gly Val Arg Trp Thr Pro Trp Ala Phe Leu Glu Ala Cys Ser Trp Gly  
1 5 10 15

Pro Ala Leu Ser Leu Leu Gly Ser Gly His Ser Leu Pro Gly  
20 25 30

<210> 592

<211> 28

<212> PRT

<213> Homo sapiens

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&lt;400&gt; 592

Trp Asp Ser Pro Ala Ala Pro Pro His Gln Gly Phe Ala Asp Val Leu  
 1 5 10 15

Glu Arg Pro Thr Leu Glu Pro Phe Gly Val Leu Ala  
 20 25

&lt;210&gt; 593

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 593

Arg Ser Ser Glu Pro Ala Pro Leu Ala Ser Arg Arg Gly Tyr Ser Thr  
 1 5 10 15

Cys Cys Leu Ser Arg Gly Lys Gly Leu Pro Met Arg  
 20 25

&lt;210&gt; 594

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 594

Pro Gly Phe Arg Gly Pro Ser Gly Ser Leu Gly Cys Ser Phe Phe Pro  
 1 5 10 15

Arg Ser Leu Gly Arg Val Leu Pro Pro Gly Cys Gln Arg Pro Gly Ala  
 20 25 30

His Ala Asp Ser Ser Pro Pro Pro Thr Pro  
 35 40

&lt;210&gt; 595

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 595

Glu Asp Leu Lys Lys Pro Asp Pro Ala Ser Leu Arg Ala Ala Ser Cys  
 1 5 10 15

Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys Gly Leu  
 20 25 30

Ala Glu Glu Leu Glu Lys Glu Lys Ser Arg Glu Gln Met Ser Ser Gln  
 35 40 45

Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys  
 50 55 60

Ala Ser Cys Pro Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys  
 65 70 75 80

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Val Leu Leu Ser

<210> 596  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 596  
 Glu Asp Leu Lys Lys Pro Asp Pro Ala Ser Leu Arg Ala Ala Ser Cys  
 1 5 10 15  
 Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys Gly Leu  
 20 25 30  
 Ala Glu Glu Leu Glu Lys Glu Lys Ser Arg Glu Gln Met Ser Ser Gln  
 35 40 45  
 Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys  
 50 55 60  
 Ala Ser Cys Pro Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys  
 65 70 75 80  
 Val Leu Leu Ser Asp Ser Asn Leu His Asp  
 85 90

<210> 597  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 597  
 Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys Ala Ser Cys Pro  
 1 5 10 15  
 Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys Val Leu Leu Ser  
 20 25 30  
 Asp Ser

<210> 598  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 598  
 Ser Cys Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys  
 1 5 10 15  
 Gly Leu Ala Glu Glu Leu Glu Lys Glu  
 20 25

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<210> 599  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 599  
 Ser Gln Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe  
   1                  5                  10                  15  
 Arg Cys Ala Ser Cys  
                   20

<210> 600  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 600  
 Arg Glu Ala Gly Gln Asn Ser Glu Arg Gln Tyr Val Ser Leu Ser Arg  
   1                  5                  10                  15  
 Asp

<210> 601  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 601  
 Cys Cys Cys Val Ser Lys Asp Gln Gly Ile Met Gly Pro Gly Phe Arg  
   1                  5                  10                  15

<210> 602  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 602  
 His Ser Val Thr Glu Leu Gln Thr Pro Ala Leu Ser Leu Ile Ser Ala  
   1                  5                  10                  15  
 Met Leu Pro Pro Ser Cys Leu Ser Glu Leu Leu Val Tyr Ser Ile Leu  
           20                  25                  30  
 Cys Asp Thr Ser Gln Val Ala His Asn Leu Leu Arg Ala Pro Glu Asp  
           35                  40                  45  
 Ser Leu Thr Gly Cys Cys Asp Asp Ile Gln Cys Pro Ser Ala Pro Phe  
   50                  55                  60

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His Pro Gln Pro His Leu Thr Val Ala Leu His Leu Cys Pro Val Val  
65 70 75 80

Ile Tyr Val Asn Leu Gln Val Leu Asn Leu Leu His Ile Leu Thr Tyr  
85 90 95

Leu Glu Ile Leu His Val Leu  
100

<210> 603  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 603  
Leu Leu Val Tyr Ser Ile Leu Cys Asp Thr Ser Gln Val Ala His Asn  
1 5 10 15

Leu Leu Arg Ala Pro Glu Asp Ser  
20

<210> 604  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 604  
Leu Thr Val Ala Leu His Leu Cys Pro Val Val Ile Tyr Val Asn Leu  
1 5 10 15

Gln Val Leu Asn Leu Leu His Ile Leu Thr  
20 25

<210> 605  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 605  
Phe Phe Asn Ala Leu Tyr Val Phe Arg Lys Pro Gln Ala Ile Phe Asp  
1 5 10 15

Ser Glu Lys Glu Asn Lys Arg Lys Asn Pro Thr Lys Tyr Asn Asn Pro  
20 25 30

Leu Arg Tyr Ile Tyr Phe Lys Val Lys Leu Ile Phe Gln Phe Ile Pro  
35 40 45

Leu Ala Asn Tyr Lys Ile Lys  
50 55

<210> 606  
<211> 90  
<212> PRT

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<400> 606

Pro Arg Gln Gln Gly Met Cys Phe Gly Ser Leu Thr Gly Leu Ser Thr  
20 25 30

Thr Pro His Gly Phe Leu Thr Val Ser Ala Glu Ala Asp Pro Arg Leu  
35 40 45

Ile Glu Ser Leu Ser Gln Met Leu Ser Met Gly Phe Ser Asp Glu Gly  
50 55 60

Gly Trp Leu Thr Arg Leu Leu Gln Thr Lys Asn Tyr Asp Ile Gly Ala  
65 70 75 80

Ala Leu Asp Thr Ile Gln Tyr Ser Lys His  
85 90

<210> 607

<211> 100

&lt;212&gt; PRT

<213> Homo sapiens

<400> 607

Tyr Ser Met Val Tyr Ile Tyr His Ile Phe Phe Ile His Ser Leu Leu  
1 5 10 15

Asp Gly Gln Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala  
20 25 30

Ala Pro Asp Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser  
35 40 45

Lys Ser Cys Ser Phe Tyr Leu Gln Asn Val Ser Cys Ile His Ser Ser  
50 55 60

Leu Ser Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met Glu  
65 70 75 80

Glu Cys Asn Asn Trp Leu Thr Gly Leu Phe Leu His Phe Lys Ile Lys  
85 90 95

Arg Cys Asp Arg  
100

<210> 608

<211> 67

&lt;212&gt; PRT

<213> Homo sapiens

<400> 608

Leu Ser Pro Ser Pro Arg Cys Cys Pro Trp Ala Ser Leu Met Lys Ala  
1 5 10 15



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<210> 609
<211> 34
<212> PRT
<213> Homo sapiens
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<210> 610
<211> 33
<212> PRT
<213> Homo sapiens
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<210> 611
<211> 25
<212> PRT
<213> Homo sapiens
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<400> 611
Ser Leu Ser Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met
 1             5             10             15
Glu Glu Cys Asn Asn Trp Leu Thr Gly
      20             25

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<210> 612  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 612  
 Leu Met Lys Ala Ala Gly Ser Pro Gly Ser Cys Arg Pro Arg Thr Met  
 1 5 10 15

Thr Ser Glu Arg Leu Trp Thr Pro Ser Ser Ile Gln Ser Ile  
 20 25 30

<210> 613  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 613  
 Ser Ser Ser Ser Pro Arg Arg Pro Arg Glu Leu Leu Gly Ser Leu Lys  
 1 5 10 15

Thr Pro Leu Val Arg Pro His Ser Ala Pro Leu Asp Leu Pro Gly Ser  
 20 25 30

Phe Cys Xaa His Thr Ala Asp Pro Met Gly Ala Leu His Thr Arg Phe  
 35 40 45

Trp Gly Arg Gln Thr Trp Ile His Arg Lys Leu Arg Leu His Gly Thr  
 50 55 60

Ser Arg Leu Ala Ser Lys Xaa Gly Ile Gln Phe Leu Arg Asn Pro Ser  
 65 70 75 80

Lys Thr His Thr Pro Arg Asp Ala Ala Phe Arg Asp Pro Gly Gln Thr  
 85 90 95

Pro Asp Pro Gln Ser Leu Gln Ala Pro Ser Pro Ser Lys Cys Ser Ala  
 100 105 110

Pro Asn Arg Ala Thr Ser Val Trp Ser Leu Lys Pro Arg Leu Leu Tyr  
 115 120 125

Lys His Arg Pro Ser Ser Asp Lys Thr Pro Pro Pro Gly Arg Gln Ala  
 130 135 140

Pro Leu Leu Phe Phe Ser Ala Gly

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145

150

<210> 614  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 614  
 Phe Leu Arg Asn Pro Ser Lys Thr His Thr Pro Arg Asp Ala Ala Phe  
 1 5 10 15  
 Arg Asp Pro Gly Gln Thr Pro Asp Pro Gln Ser Leu Gln Ala  
 20 25 30

<210> 615  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 615  
 Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val  
 1 5 10 15  
 Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu  
 20 25 30  
 Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His  
 35 40 45  
 His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile  
 50 55 60  
 Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala  
 65 70 75 80  
 Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe  
 85 90 95  
 His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met  
 100 105 110  
 Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val  
 115 120 125  
 Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly  
 130 135 140

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<213> Homo sapiens

&lt;400&gt; 620

Glu Ser Arg Glu Arg Ser Gly Asn Arg Arg Gly Ala Glu Asp Arg Gly  
 1 5 10 15

Thr Cys Gly Leu Gln Ser Pro Ser Ala  
 20 25

&lt;210&gt; 621

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 621

Glu Met Pro Gln Phe Tyr Phe Phe Leu Lys Leu Gly Cys Leu Ala Gln  
 1 5 10 15

Val Pro Met Gln Arg Gly Gly Ile Gly Ala Arg Gly Ser Xaa Xaa Pro  
 20 25 30

Ala Xaa Ala Val Xaa Gly Ala Arg Glu Gly Arg Arg Lys Leu Ser Gly  
 35 40 45

Ala Gly Phe Leu Cys Leu Lys Asp Leu Gly Pro Ser Glu Arg Glu Asp  
 50 55 60

Glu Glu Ala Arg Glu Thr  
 65 70

&lt;210&gt; 622

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 622

Met Pro Gln Phe Tyr Phe Phe Leu Lys Leu Gly Cys Leu Ala Gln Val

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370

1 5 10 15

Pro Met Gln Arg Gly Gly Ile Gly Ala Arg Gly  
20 25

<210> 623  
<211> 185  
<212> PRT  
<213> Homo sapiens

<400> 623  
Gln Ala Thr Cys Ser Ala Ser Gly Ser Pro Gly Gln Phe Gly Gly Cys  
1 5 10 15  
Thr Pro Ser Pro His Gly Thr Gly Ser Cys Arg His Pro Gly Gln Gly  
20 25 30  
Leu Arg Arg Ser Gln Arg Pro Gly Gln Ser His Arg Pro Arg Ser Pro  
35 40 45  
Gly Pro Gly Arg Ser Arg Trp Pro His Trp Cys His Cys Arg Phe Pro  
50 55 60  
Leu Leu Ala His Gly Gly Gly Phe Gly Pro Gln Gln Met Pro Leu Ala  
65 70 75 80  
Gln Gly Val Pro Leu Pro Gly Leu Leu Pro Arg Ala Pro Leu Gln Gln  
85 90 95  
Leu Gly Gln Ala His Arg Pro Pro Gly Thr Pro Pro Pro Ala Gly Arg  
100 105 110  
Ala Leu Thr Pro Pro Gly Pro Thr Arg Pro Pro Gly Pro Glu Ala Pro  
115 120 125  
Glu Pro Arg Ala Ala Arg Asp Cys Val Gly Asp Leu Val Ala Ser Val  
130 135 140  
Ala Trp Leu Pro Thr Trp Leu Arg Gly Ser Ala Thr His Lys Cys Pro  
145 150 155 160  
Gly Leu Leu Pro Leu Phe Cys Phe Arg Ser Ser Pro Trp Ile Leu Thr  
165 170 175  
Ala Gly Thr Leu Ile Val Cys Pro Leu  
180 185

<210> 624  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 624  
Gly Cys Thr Pro Ser Pro His Gly Thr Gly Ser Cys Arg His Pro Gly  
1 5 10 15

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Gln Gly Leu Arg Arg Ser Gln Arg Pro  
                   20                  25

<210> 625  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 625  
 Ser Arg Trp Pro His Trp Cys His Cys Arg Phe Pro Leu Leu Ala His  
   1                  5                  10                  15

Gly Gly Gly Phe Gly Pro Gln Gln Met Pro  
                   20                  25

<210> 626  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 626  
 Asp Cys Val Gly Asp Leu Val Ala Ser Val Ala Trp Leu Pro Thr Trp  
   1                  5                  10                  15

Leu Arg Gly Ser Ala Thr His Lys Cys Pro Gly Leu  
                   20                  25

<210> 627  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 627  
 Asp Asp Arg Pro Arg Val Gln His Gln Ala His Leu Asp Ser Leu Ala  
   1                  5                  10                  15

Val Val His Leu His His Met Glu Pro Glu Ala Val Asp Thr Pro Asp  
                   20                  25                  30

Arg Gly Tyr Glu Gly Ala Arg Gly Pro Val Lys Ala Thr Ala Leu Val  
                   35                  40                  45

His Gln Asp Leu Val Glu Val Asp Gly Pro Thr Gly Ala Ile Ala Gly  
                   50                  55                  60

Phe Pro Cys Trp Leu Met Val Val Ala Ser Asp Arg Xaa Lys Cys His  
   65                  70                  75                  80

Ser Pro Arg Gly Cys Leu Ser Gln Gly Cys Ser Pro Gly Pro Pro Cys  
                   85                  90                  95

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Leu Cys Pro Ala Ser His Ser Tyr Ser Cys Cys His Cys Ser Ser  
 145 150 155

<210> 630  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 630  
 Ser Ser Arg Thr Gly Ser Asp Pro Ser Trp Ala His Pro Ala Pro Arg  
 1 5 10 15

Ala Arg Ser Thr Arg Thr Lys Gly Ser Pro Gly Leu Cys  
 20 25

<210> 631  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 631  
 Arg Arg His Pro Asp Ser Leu Pro Ser Leu Gly Ser Leu Asn Pro Leu  
 1 5 10 15

Ser Ile Pro Val Ser Gln Leu Cys Pro Ala Ser  
 20 25

<210> 632  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 632  
 Ser Thr His Ala Ser Gly Pro Pro Ala Pro Glu Arg Leu Cys Leu Pro  
 1 5 10 15

Glu Arg Gly Thr Ala Pro Trp Gly Arg Arg Ala Asn Asp Ala Ala  
 20 25 30

<210> 633  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (165)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 633  
 Val Arg Arg Trp Trp Leu Arg Thr Met Gly Ala Ala Ala His Cys Thr  
   1                  5                  10                  15  
 Pro Glu Gln Arg Arg Pro Arg Arg Pro Ala Thr Ile Leu Gly Met Asp  
                   20                  25                  30  
 Thr Gln Asn Ile Leu His Thr Arg Leu Ser Leu Cys Ser Leu Ser Trp  
           35                  40                  45  
 Val Ser Leu Ala Ser Ser Phe Xaa Xaa Leu Ala Xaa Arg Arg Lys Ala  
   50                  55                  60  
 Ile Val Val Gln Gln Lys Gln Ser Lys Ile Ser Lys Lys Lys Lys Val  
   65                  70                  75                  80  
 Glu Lys Xaa Xaa Leu Asn Asp Ser Val Asn Glu Asn Ser Asp Thr Val  
                   85                  90                  95  
 Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu Ala Asn Ala Asp Val  
           100                  105                  110  
 Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr Asp Pro Glu Ser Pro  
   115                  120                  125  
 Val Thr Pro Ser Thr Pro Gly Ser Pro Pro Val Ser Pro Gly Leu Cys  
   130                  135                  140  
 His Gln Gly Gly Arg Gln Gly Ser Thr Ser Val Ala Ile Ile Cys Ile  
   145                  150                  155                  160  
 Arg Trp Ala Val Xaa Ser Arg Gly Met Cys Val Ile Gly Val Gly Thr  
           165                  170                  175  
 Ser Gly Gly Thr Leu  
           180

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<210> 634  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 634  
 Ile Met Lys Asn Glu Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala  
           1                  5                  10                  15  
 Asp Asn Ser Leu Tyr Asp Pro Glu Ser Pro Val Thr Pro  
                   20                  25

<210> 635  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 635  
 His Cys His Leu Trp Ala Ser Gly Ser Cys Leu Ala Cys Phe Phe Pro  
           1                  5                  10                  15  
 Gly Gly Leu Thr Arg Asp Ala Ala Gln Gln His Val Thr Lys Ser Tyr  
                   20                  25                  30  
 Ser Pro Pro Tyr Leu Ser Gln Thr Ser His Ser Cys Leu Val Phe Gln  
           35                  40                  45  
 Pro Val Leu Trp Pro Glu Tyr Thr Phe Trp Asn Leu Phe Glu Ala Ile  
           50                  55                  60  
 Leu Gln Phe Gln Met Asn His Ser Val Leu Gln Gln Xaa Gly Pro Arg  
           65                  70                  75                  80  
 His Val Cys Arg Gly Ala Glu Glu Ala Ala Ala Gly Glu Gly Pro Gly  
                   85                  90                  95  
 Tyr Ser Asp Arg Ala Ala Ala Ala Arg Gly Ala Pro Ser Gln Trp Gly  
           100                  105                  110  
 Arg Pro Ala Pro Lys Asp Thr Leu Ala Gln Thr Leu Gly Gln Thr Gly  
           115                  120                  125  
 Arg Ala Ser Pro Arg Leu Pro Ala Gly Leu Gly Thr Gln Ala Ser  
           130                  135                  140

<210> 636  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

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<220>  
<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Lys Met Asn Ser Ile Pro Trp Gln Ile Pro Lys Ile Thr Pro Xaa Leu  
1 5 10 15

Gly Thr Ile Lys Gln Leu Lys Leu Trp Asn Gln Val Phe Met Gly Phe  
35 40 45

Pro Tyr Cys Tyr Leu Phe Ile Asp Asn Ile Leu Gly Ile Phe Tyr Ser  
65 70 75 80

Phe Thr Cys Leu Leu Asn Leu Asn Leu Lys Ile His Ser Asn Leu Ala  
100 105 110

<213> Homo sapiens

Leu Trp Phe Cys Ile Gly Thr Ile Lys Gln Leu Lys Leu Trp Asn Gln  
1 5 10 15

<213> Homo sapiens

Tyr Ser Ile Leu Gly Ala Gln Gly Ile Lys Tyr Asn Phe Tyr Ile Gln  
1 5 10 15

&lt;212&gt; PRT

<213> Homo sapiens

<400> 642

Thr Phe Lys Leu Val Arg Phe Leu Glu  
1 5

<210> 643

<211> 32

<212> PRT

<213> Homo sapiens

<400> 643

Pro Arg Ser Arg Pro Ala Leu Arg Pro Gly Arg Gln Arg Pro Pro Ser  
1 5 10 15

His Ser Ala Thr Ser Gly Val Leu Arg Pro Arg Lys Lys Pro Asp Pro  
20 25 30

<210> 644

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 644

Arg Lys Ser Phe Ala Lys Pro Val Leu Trp Thr Asn Ala Ile Gln Ala  
1 5 10 15

Gly Arg Gly Arg Val Leu Cys Tyr Thr Arg Pro Pro Pro Ala Ser Ser  
20 25 30

Ser Phe Ser Ala Leu Val Pro Asp Gly Asn Arg Met Glu Gly Leu Arg  
35 40 45

Thr Tyr Phe Leu Asn Ala Phe Asp Pro Gly Thr Asp Tyr Leu Tyr Leu  
50 55 60

Phe Pro Phe Ser Phe Thr Val Thr Phe Gln His Cys Leu Thr Val Arg  
65 70 75 80

Trp Ala Phe Glu Ser Leu Gln Val Pro Gln Asn Arg Pro Glu Arg Trp  
85 90 95

Ala Ser His Pro Leu Pro Thr His Xaa Pro Ala Tyr Leu Pro Asp Asn

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110

<212> PRT

<400> 648

<210> 649

<211> 61

&lt;212&gt; PRT

<213> Homo sapiens

<400> 649

Leu Cys Gln Met Leu Ser Gly Ala Val Val Val Trp Arg Arg Ser Ala  
20 25 30

Pro Glu Asp Ser Ala Val Trp Gln Ala Ser Ile Asn Lys Pro Arg Gly  
35 40 45

Lys Gly Arg His Gly Ile Lys Gly Glu Asn Thr Ser Val  
50 55 60

<210> 650

&lt;211&gt; 35

&lt;212&gt; PRT

<213> Homo sapiens

<400> 650

Leu Val Phe Thr Gly Cys Ser Val Leu Cys Gln Met Leu Ser Gly Ala  
1 5 10 15

Val Val Val Trp Arg Arg Ser Ala Pro Glu Asp Ser Ala Val Trp Gln  
20 25 30

Ala Ser Ile  
35

<210> 651

&lt;211&gt; 51

&lt;212&gt; PRT

<213> Homo sapiens

<400> 651

Gly His Pro Ser Pro Ala Leu Ser Ile Ala Pro Ser Asp Gly Ser Gln  
1 5 10 15

Leu Pro Cys Asp Glu Val Pro Tyr Gly Glu Ala His Val Thr Arg Tyr  
20 25 30

Cys Lys Lys Pro Leu Thr Asn Ser His Leu Glu Thr Glu Ala Gln Ser  
35 40 45

Ser Ser Leu



50

<210> 652  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 652  
 Asn Asn Lys His Tyr Leu Ser Phe Cys Gly Ser Gly Phe Cys Pro Val  
   1                  5                  10                  15  
 Tyr Leu Gly Phe Thr Gly Leu Ala Ser His Gln Ala Val Lys Val Leu  
           20                  25                  30  
 Val Val Ala Val Ile Ile Pro Arg Gln Asp Arg Glu Arg Ile Cys Leu  
       35                  40                  45  
 Gln Ala Gln Val Gly Arg Ile His Leu Arg Gly Cys Trp Thr Gly Pro  
   50                  55                  60  
 Pro Phe Leu Asp Gly Tyr Trp Ser Glu Ala Phe Tyr Asn Thr Leu Ser  
   65                  70                  75                  80  
 Arg Gly Pro Leu His Arg Ala Pro His His Met Ala Thr Gly Phe His  
           85                  90                  95  
 Gln Arg Glu Gln Trp Lys Glu Gln Glu Lys Gly Asp Gln Gly Arg His  
       100                  105                  110  
 Arg Ser Leu Leu Val Ala Ser Pro Gln Lys Arg Cys Tyr Phe Cys Cys  
       115                  120                  125  
 Ile Leu Xaa Val Arg Ser Glu Ser Leu Gly Pro Gly Val Glu Phe Tyr  
   130                  135                  140  
 Xaa Gly Val Asn Gly Arg Arg  
 145                  150

<210> 653  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 653  
 Glu Arg Ile Cys Leu Gln Ala Gln Val Gly Arg Ile His Leu Arg Gly  
   1                  5                  10                  15

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Cys Trp Thr Gly Pro Pro Phe Leu Asp Gly Tyr Trp Ser Glu Ala Phe  
                   20                  25                  30

<210> 654  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 654  
 Ser Asp Gly Ser Gln Leu Pro Cys Asp Glu Val Pro Tyr Gly Glu Ala  
       1                  5                  10                  15

His Val Thr Arg Tyr Cys Lys Lys Pro Leu  
                   20                  25

<210> 655  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 655  
 His Gln Arg Glu Gln Trp Lys Glu Gln Glu Lys Gly Asp Gln Gly Arg  
       1                  5                  10                  15

His Arg Ser Leu Leu Val Ala Ser Pro Gln Lys  
                   20                  25

<210> 656  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 656  
 gcttcgtgtc caacctctt gcccttcgcc tgtgtgcctg gagccagtcc caccacgtc 60  
 gcgtttcttc ctgtagtgtc cacaggtccc agcaccgatg gcattccott tgccctgagt 120  
 ctgcagcggg tcccttttgt gcttccttcc cctcaggtag cctctctccc cctggggcac 180  
 tcccgggggt gaggggggta ccccttccca gtgtttttta ttctgtggg gctcacccca 240  
 aagtattaaa agtagctttg taa 263

<210> 657  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 657

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<210> 658
<211> 263
<212> DNA
<213> Homo sapiens
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<210> 659
<211> 56
<212> PRT
<213> Homo sapiens
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<400> 659
Phe Arg Ile Asn Arg Leu Thr Ile Gly Xaa Ala Val Ala Met Thr Arg
 1               5               10               15

Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys Lys Gln Ser
      20               25               30

Asp Ser Val Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala
      35               40               45

Arg Lys Gln Arg Asp Ser Glu Ile
 50               55

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<210> 660
<211> 29
<212> PRT
<213> Homo sapiens
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Asn Met Lys Lys Gln Ser Asp Ser Val Lys Gly Lys Arg  
20 25

<213> Homo sapiens

Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly  
100 105 110

<213> Homo sapiens

Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser  
20 25

<213> Homo sapiens

Val Val Leu Thr Gly Pro Ser Thr Asp Gly Ile Pro Phe Ala Leu Ser  
1 5 10 15

Leu Gln Arg Val Pro Phe Val Leu Pro Ser Pro Gln Val Ala  
                   20                  25                  30

<210> 664  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 664  
 Leu Leu Ser Thr Ser His Leu Leu Thr Gln Ser Tyr Ser Phe Asn Lys  
   1                  5                  10                  15

Arg Ser His Ser Phe Ala Trp Lys Asn Ala His Cys Ile Leu Gln Ser  
                   20                  25                  30

Glu Asn Asn Glu Leu Gln Asn Ser Val Tyr Ile Tyr Val Cys Ile Tyr  
                   35                  40                  45

Val His Phe Ile Cys Thr Phe Leu Cys Asp Ile  
           50                  55

<210> 665  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 665  
 Lys Arg Ser His Ser Phe Ala Trp Lys Asn Ala His Cys Ile Leu Gln  
   1                  5                  10                  15

Ser Glu Asn Asn Glu Leu Gln Asn Ser Val Tyr Ile Tyr Val Cys Ile  
                   20                  25                  30

<210> 666  
 <211> 160  
 <212> DNA  
 <213> Homo sapiens

<400> 666  
 tggctcactg tcttacaatc actgctgtgg aatcatgata ccacttttag ctctttgcat 60  
 cttccttcag tgtatttttg tttttcaaga ggaagtagat tttaactgga caactttgag 120  
 tactgacatc attgataaat aaactggctt gtgggtttcaa 160

<210> 667  
 <211> 292  
 <212> PRT  
 <213> Homo sapiens

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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 667

Leu Asp Glu Leu Met Ala His Leu Thr Glu Met Gln Ala Lys Val Ala  
 1 5 10 15

Val Arg Ala Asp Ala Gly Lys Lys His Leu Pro Asp Lys Gln Asp His  
 20 25 30

Lys Ala Ser Leu Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln  
 35 40 45

Asp Leu Gly Ile Ala Thr Val Pro Lys Gly His Cys Ala Ser Cys Gln  
 50 55 60

Lys Pro Ile Ala Gly Lys Val Ile His Ala Leu Gly Gln Ser Trp His  
 65 70 75 80

Pro Glu His Phe Val Cys Thr His Cys Lys Glu Glu Ile Gly Ser Ser  
 85 90 95

Pro Phe Phe Glu Arg Ser Gly Leu Xaa Tyr Cys Pro Asn Asp Tyr His  
 100 105 110

Gln Leu Phe Ser Pro Arg Cys Ala Tyr Cys Ala Ala Pro Ile Leu Asp  
 115 120 125

Lys Val Leu Thr Ala Met Asn Gln Thr Trp His Pro Glu His Phe Phe  
 130 135 140

Cys Ser His Cys Gly Glu Val Phe Gly Ala Glu Gly Phe His Glu Lys  
 145 150 155 160

Asp Lys Lys Pro Tyr Cys Arg Lys Asp Phe Leu Ala Met Phe Ser Pro  
 165 170 175

Lys Cys Gly Gly Cys Asn Arg Pro Val Leu Glu Asn Tyr Leu Ser Ala  
 180 185 190

Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys Gly Asp Cys Phe  
 195 200 205

Thr Ser Phe Ser Thr Gly Ser Phe Phe Glu Leu Asp Gly Arg Pro Phe  
 210 215 220

Cys Glu Leu His Tyr His His Arg Arg Gly Thr Leu Cys His Gly Cys  
 225 230 235 240

Gly Gln Pro Ile Thr Gly Arg Cys Ile Ser Ala Met Gly Tyr Lys Phe  
 245 250 255

His Pro Glu His Phe Val Cys Ala Phe Cys Leu Thr Gln Leu Ser Lys  
 260 265 270

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Thr Ser Phe Ser Thr Gly Ser Phe Phe Glu Leu Asp Gly Arg Pro Phe

50 55 60

Cys Glu Leu  
65

<210> 671  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 671  
Cys Gly Gln Pro Ile Thr Gly Arg Cys Ile Ser Ala Met Gly Tyr Lys  
1 5 10 15  
Phe His Pro Glu His Phe Val Cys Ala Phe Cys Leu Thr Gln Leu Ser  
20 25 30  
Lys Gly Ile Phe Arg Glu Gln Asn Asp Lys Thr Tyr Cys Gln  
35 40 45

<210> 672  
<211> 334  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (145)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 672  
His Lys Ser Leu Ala Gly Ala Xaa Val Tyr Thr Thr Asn Ile Gln Glu  
1 5 10 15  
Leu Asn Val Tyr Ser Glu Ala Gln Glu Pro Lys Glu Ser Pro Pro Pro  
20 25 30  
Ser Lys Thr Ser Ala Ala Ala Gln Leu Asp Glu Leu Met Ala His Leu  
35 40 45  
Thr Glu Met Gln Ala Lys Val Ala Val Arg Ala Asp Ala Gly Lys Lys  
50 55 60  
His Leu Pro Asp Lys Gln Asp His Lys Ala Ser Leu Asp Ser Met Leu  
65 70 75 80  
Gly Gly Leu Glu Gln Glu Leu Gln Asp Leu Gly Ile Ala Thr Val Pro  
85 90 95  
Lys Gly His Cys Ala Ser Cys Gln Lys Pro Ile Ala Gly Lys Val Ile  
100 105 110



His Ala Leu Gly Gln Ser Trp His Pro Glu His Phe Val Cys Thr His  
 115 120 125  
 Cys Lys Glu Glu Ile Gly Ser Ser Pro Phe Phe Glu Arg Ser Gly Leu  
 130 135 140  
 Xaa Tyr Cys Pro Asn Asp Tyr His Gln Leu Phe Ser Pro Arg Cys Ala  
 145 150 155 160  
 Tyr Cys Ala Ala Pro Ile Leu Asp Lys Val Leu Thr Ala Met Asn Gln  
 165 170 175  
 Thr Trp His Pro Glu His Phe Phe Cys Ser His Cys Gly Glu Val Phe  
 180 185 190  
 Gly Ala Glu Gly Phe His Glu Lys Asp Lys Lys Pro Tyr Cys Arg Lys  
 195 200 205  
 Asp Phe Leu Ala Met Phe Ser Pro Lys Cys Gly Gly Cys Asn Arg Pro  
 210 215 220  
 Val Leu Glu Asn Tyr Leu Ser Ala Met Asp Thr Val Trp His Pro Glu  
 225 230 235 240  
 Cys Phe Val Cys Gly Asp Cys Phe Thr Ser Phe Ser Thr Gly Ser Phe  
 245 250 255  
 Phe Glu Leu Asp Gly Arg Pro Phe Cys Glu Leu His Tyr His His Arg  
 260 265 270  
 Arg Gly Thr Leu Cys His Gly Cys Gly Gln Pro Ile Thr Gly Arg Cys  
 275 280 285  
 Ile Ser Ala Met Gly Tyr Lys Phe His Pro Glu His Phe Val Cys Ala  
 290 295 300  
 Phe Cys Leu Thr Gln Leu Ser Lys Gly Ile Phe Arg Glu Gln Asn Asp  
 305 310 315 320  
 Lys Thr Tyr Cys Gln Pro Cys Phe Asn Lys Leu Phe Pro Leu  
 325 330

&lt;210&gt; 673

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 673

Asn Val Tyr Ser Glu Ala Gln Glu Pro Lys Glu Ser Pro Pro Pro Ser  
 1 5 10 15

Lys Thr Ser Ala Ala Ala  
 20

&lt;210&gt; 674

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<211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 674  
 Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln Asp Leu Gly Ile  
           1                  5                  10                  15

Ala Thr Val Pro Lys Gly His Cys Ala Ser  
                   20                  25

<210> 675  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 675  
 Tyr Leu Ser Ala Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys  
           1                  5                  10                  15

Gly Asp Cys Phe Thr Ser Phe Ser Thr Gly  
                   20                  25

<210> 676  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 676  
 Arg Cys Ile Ser Ala Met Gly Tyr Lys Phe His Pro Glu His Phe Val  
           1                  5                  10                  15

Cys Ala Phe Cys Leu Thr Gln Leu Ser Lys  
                   20                  25

<210> 677  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 677  
 Pro Thr Arg Pro Val Leu Phe Phe Ser Thr Cys Gln Ser Cys Ser Ser  
           1                  5                  10                  15

Arg Pro Val Arg Gln Glu His Leu Gly Cys Arg Thr Met Glu Glu Leu  
                   20                  25                  30

Asp Ala Leu Leu Glu Glu Leu Glu Arg Ser Thr Leu Gln Asp Ser Asp  
           35                  40                  45

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<400> 681

Leu Phe Ser Pro Arg Cys  
1 5

<210> 682  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 682  
Pro Ile Leu Asp Lys Val  
1 5

<210> 683  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 683  
Thr Trp His Pro Glu His Phe Phe  
1 5

<210> 684  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 684  
Glu Gly Phe His Glu Lys Asp  
1 5

<210> 685  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 685  
Lys Phe His Pro Glu His Phe Val Cys Ala Phe Cys Leu  
1 5 10

<210> 686  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 686  
Pro Ile Thr Gly Arg Cys Ile  
1 5

<210> 687  
<211> 7  
<212> PRT  
<213> Homo sapiens

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&lt;400&gt; 687

His Pro Glu His Phe Val Cys

1

5

&lt;210&gt; 688

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 688

Arg Ile Tyr Cys Ser Glu Asp Thr Phe Ser Pro Xaa Ala Glu Ser Gly

1

5

10

15

Val Ser Trp Gln Ser Ser Val Ser Gln Leu Tyr Gln Asp Tyr Glu

20

25

30

&lt;210&gt; 689

&lt;211&gt; 452

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 689

Met Gly Ser Ser Gln Ser Val Glu Ile Pro Gly Gly Gly Thr Glu Gly

1

5

10

15

Tyr His Val Leu Arg Val Gln Glu Asn Ser Pro Gly His Arg Ala Gly

20

25

30

Leu Glu Pro Phe Phe Asp Phe Ile Val Ser Ile Asn Gly Ser Arg Leu

35

40

45

Asn Lys Asp Asn Asp Thr Leu Lys Asp Leu Leu Lys Xaa Asn Val Glu

50

55

60

Lys Pro Val Lys Met Leu Ile Tyr Ser Ser Lys Thr Leu Glu Leu Arg

65

70

75

80

Glu Thr Ser Val Thr Pro Ser Asn Leu Trp Gly Gly Gln Gly Leu Leu

85

90

95

Gly Val Ser Ile Arg Phe Cys Ser Phe Asp Gly Ala Asn Glu Asn Val

100

105

110

Trp His Val Leu Glu Val Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly

115

120

125

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Leu Arg Pro His Ser Asp Tyr Ile Ile Gly Ala Asp Thr Val Met Asn  
 130 135 140  
 Glu Ser Glu Asp Leu Phe Ser Leu Ile Glu Thr His Glu Ala Lys Pro  
 145 150 155 160  
 Leu Lys Leu Tyr Val Tyr Asn Thr Asp Thr Asp Asn Cys Arg Glu Val  
 165 170 175  
 Ile Ile Thr Pro Asn Ser Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys  
 180 185 190  
 Gly Ile Gly Tyr Gly Tyr Leu His Arg Ile Pro Thr Arg Pro Phe Glu  
 195 200 205  
 Glu Gly Lys Lys Ile Ser Leu Pro Gly Gln Met Ala Gly Thr Pro Ile  
 210 215 220  
 Thr Pro Leu Lys Asp Gly Phe Thr Glu Val Gln Leu Ser Ser Val Asn  
 225 230 235 240  
 Pro Pro Ser Leu Ser Pro Pro Gly Thr Thr Gly Ile Glu Gln Ser Leu  
 245 250 255  
 Thr Gly Leu Ser Ile Ser Ser Thr Pro Pro Ala Val Ser Ser Val Leu  
 260 265 270  
 Ser Thr Gly Val Pro Thr Val Pro Leu Leu Pro Pro Gln Val Asn Gln  
 275 280 285  
 Ser Leu Thr Ser Val Pro Pro Met Asn Pro Ala Thr Thr Leu Pro Gly  
 290 295 300  
 Leu Met Pro Leu Pro Ala Gly Leu Pro Asn Leu Pro Asn Leu Asn Leu  
 305 310 315 320  
 Asn Leu Pro Ala Pro His Ile Met Pro Gly Val Gly Leu Pro Glu Leu  
 325 330 335  
 Val Asn Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn Leu  
 340 345 350  
 Pro Gly Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser Phe  
 355 360 365  
 Pro Leu Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu Leu  
 370 375 380  
 Ser Ser Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr Thr  
 385 390 395 400  
 Thr Ala Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr Pro  
 405 410 415  
 Pro Thr Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp Ser  
 420 425 430

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Thr Pro Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn Ala  
 435 440 445

Ser Glu Ser Pro  
 450

<210> 690  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 690  
 Ser Val Glu Ile Pro Gly Gly Gly Thr Glu Gly Tyr His Val Leu Arg  
 1 5 10 15  
 Val Gln Glu Asn Ser Pro Gly His Arg Ala Gly Leu Glu Pro Phe Phe  
 20 25 30  
 Asp Phe Ile Val Ser Ile Asn Gly Ser Arg Leu Asn Lys Asp Asn Asp  
 35 40 45  
 Thr Leu Lys Asp Leu Leu Lys Xaa Asn Val Glu Lys Pro Val Lys Met  
 50 55 60  
 Leu Ile Tyr Ser Ser Lys Thr Leu Glu Leu Arg Glu Thr Ser Val Thr  
 65 70 75 80  
 Pro Ser Asn Leu Trp Gly Gly Gln Gly Leu Leu Gly Val Ser Ile Arg  
 85 90 95  
 Phe Cys Ser Phe Asp Gly Ala Asn Glu Asn Val Trp His  
 100 105

<210> 691  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 691  
 Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly Leu Arg Pro His Ser Asp  
 1 5 10 15  
 Tyr Ile Ile Gly Ala Asp Thr Val Met Asn Glu Ser Glu Asp Leu Phe  
 20 25 30  
 Ser Leu Ile Glu Thr His Glu Ala Lys Pro Leu Lys Leu Tyr Val Tyr  
 35 40 45  
 Asn Thr Asp Thr Asp Asn Cys Arg Glu Val Ile Ile Thr Pro Asn Ser  
 50 55 60

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<210> 693  
<211> 151



<213> Homo sapiens

Arg Ile Pro Thr Arg Pro Phe Glu Glu Gly Lys Lys Ile Ser Leu Pro  
1 5 10 15

Glu Val Gln Leu Ser Ser Val Asn Pro Pro Ser Leu Ser Pro Pro Gly  
35 40 45

Pro Pro Ala Val Ser Ser Val Leu Ser Thr Gly Val Pro Thr Val Pro  
65 70 75 80

Asn Pro Ala Thr Thr Leu Pro Gly Leu Met Pro Leu Pro Ala Gly Leu  
100 105 110

Pro Gly Val Gly Leu Pro Glu Leu Val Asn Pro Gly Leu Pro Pro Leu  
130 135 140

Pro Ser Met Pro Pro Arg Asn  
145 150

<211> 109

<213> Homo sapiens

Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn Leu Pro Gly  
1 5 10 15

Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu Leu Ser Ser  
35 40 45

Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr Thr Thr Ala  
50 55 60

Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr Pro Pro Thr  
65 70 75 80

Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp Ser Thr Pro  
85 90 95

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<210> 695
<211> 22
<212> PRT
<213> Homo sapiens
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<210> 696
<211> 10
<212> PRT
<213> Homo sapiens
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<210> 697
<211> 8
<212> PRT
<213> Homo sapiens
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<210> 698
<211> 27
<212> PRT
<213> Homo sapiens
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```
<210> 699
<211> 97
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Gly Ser Gly Phe Gly Trp Thr Ser Phe Pro Arg Pro Leu Pro Thr  
1 5 10 15

Gly Arg Val Arg Gly Val Arg Gly Trp Gly Ile Arg Arg Gly Cys Arg  
35 40 45

Ala Val Trp Gly Val Gly Ala Cys Gly Cys Ser Pro Gly Ser Ser Trp  
50 55 60

Arg Gly Ser Ala His Arg Ala Ser Gly Pro Ala Asp Leu Pro Val Ala  
65 70 75 80

Cys Arg Xaa Glu Gly Gly Ala Asp Ser Pro Ser Leu Leu Pro Ser Pro  
85 90 95

Pro

<211> 23

&lt;212&gt; PRT

<213> Homo sapiens

Ala Val Trp Gly Val Gly Ala Cys Gly Cys Ser Pro Gly Ser Ser Trp  
1 5 10 15

Arg Gly Ser Ala His Arg Ala  
20

&lt;211&gt; 77

<212> PRT

<213> Homo sapiens

Tyr Arg Pro Thr Met Glu Lys Met Lys Gln Val Val Thr Gln Thr Arg  
1 5 10 15

Trp Met Arg Pro Asp Ala Lys Arg Ala Asn Arg Arg His Arg Arg Ile  
20 25 30

Ser Gly Lys Ile Phe Ala Trp Asn Pro Leu Pro Lys Thr Arg Phe Ser  
35 40 45

Arg Leu Leu Lys Ala Val Ser Glu Asn Thr Lys Arg Pro Glu Pro Ser  
50 55 60

Arg Pro Pro Trp Met Val Ser His Ser Val Glu Ala Ser

65

70

75

&lt;210&gt; 702

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 702

Phe	Ala	Trp	Asn	Pro	Leu	Pro	Lys	Thr	Arg	Phe	Ser	Arg	Leu	Leu	Lys
1				5					10					15	

Ala	Val	Ser	Glu	Asn	Thr	Lys	Arg	Pro	Glu	Pro
			20					25		

&lt;210&gt; 703

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

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<222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 703  
 Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser  
           1                  5                  10                  15  
 Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa  
                   20                  25                  30  
 Xaa Xaa Xaa Xaa Xaa Xaa Trp Ile Phe Gly Val Leu His Val Val His  
                   35                  40                  45  
 Ala Ser Val Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln  
           50                  55                  60  
 Gly Met Phe Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln  
           65                  70                  75                  80  
 Glu Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys  
                   85                  90

<210> 704  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 704  
 Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr Ala  
           1                  5                  10                  15  
 Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile Phe Leu  
                   20                  25                  30  
 Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr Tyr Arg Leu  
                   35                  40                  45

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Phe Lys Asn Val Pro Cys Cys  
50 55

<210> 705  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 705  
Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser  
1 5 10 15  
Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg  
20 25

<210> 706  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 706  
Ile Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val  
1 5 10 15  
Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu  
20 25 30  
Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val  
35 40 45  
His Ala Ser Val Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe  
50 55 60  
Gln Gly  
65

<210> 707  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 707  
Glu Val Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu  
1 5 10 15  
Ala Leu Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly Val Leu His  
20 25 30

<210> 708  
<211> 86  
<212> PRT

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<400> 708

Ile Lys Asn Leu Phe Thr  
85

<211> 23

&lt;212&gt; PRT

<213> Homo sapiens

<400> 709

Ile Val Cys Phe Tyr Tyr Trp Phe Asn Gly Val Met Val Leu Leu Phe  
1 5 10 15

Phe Leu Asp Arg Asn Leu Leu  
20

<210> 710

<211> 24

<212> PRT

<213> Homo sapiens

<400> 710

Leu Leu Arg Tyr Ile Phe Tyr Val Val Leu Thr Gly Pro Thr Leu Ser  
1 5 10 15

Leu Lys Gly Asp Glu Asn Gln Ile  
20

<210> 711

<211> 50

<212> PRT

<213> Homo sapiens

**<220>**

&lt;221&gt; SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 711

Ala Leu Thr Arg Ile Pro Pro Gly Asp Trp Val Ile Asn Val Thr Ala  
 1 5 10 15

Val Ser Phe Ala Gly Lys Thr Thr Ala Arg Phe Phe Xaa His Ser Ser  
 20 25 30

Pro Pro Ser Leu Gly Asp Gln Ala Arg Thr Asp Pro Gly His Gln Arg  
 35 40 45

Arg Asp  
 50

&lt;210&gt; 712

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 712

Ser Met Leu Leu Leu Phe Pro Leu Gln Glu Arg Pro Gln Gln Asp Ser  
 1 5 10 15

Phe Ile Arg Leu Leu Leu Ala Trp Gly Thr Arg Leu Glu Leu Thr Leu  
 20 25 30

Asp Ile Lys Gly Gly Ile  
 35

&lt;210&gt; 713

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 713

Thr Gly Leu Trp Ala Asp Gly Phe Ser Ser His Ile Ile Pro Pro Leu  
1 5 10 15

Met Ser Arg Val Ser Ser Ser Leu Val Pro Gln Ala Arg Arg Arg Arg  
20 25 30

Met Lys Glu Ser Cys Cys Gly Leu Ser Cys Lys Gly Asn Ser Ser Asn  
35 40 45

Ile Asp Tyr Pro Val Thr Gly Arg Asn Ser Cys Glu Arg Ala Pro Leu  
50 55 60

Cys Ala Phe Ala Leu His Phe Gln Glu Arg Thr Xaa Ile Thr Gly Xaa  
65 70 75 80

Gly Glu Asp Pro Gly Pro Phe Gln Ser Xaa Gly Arg Val Thr Ala Ser  
85 90 95

Arg Xaa Thr Leu Ala Cys Ser His Val Ala Met Thr Pro Ala Gly Cys  
100 105 110

Xaa Gln Ala Leu Gly Thr Pro Ser Tyr Cys Val Arg Lys Ala Pro  
115 120 125

Arg Ala  
130

<210> 714

<211> 28

<212> PRT

<213> Homo sapiens

<400> 714

Gln Ala Arg Arg Arg Met Lys Glu Ser Cys Cys Gly Leu Ser Cys  
1 5 10 15

Lys Gly Asn Ser Ser Asn Ile Asp Tyr Pro Val Thr  
20 25

<210> 715

<211> 9

<212> PRT

<213> Homo sapiens

<400> 715

Leu Trp Arg Ser Ser Gly Val Glu Arg  
1 5

<210> 716

<211> 27

<212> PRT

<213> Homo sapiens

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&lt;400&gt; 716

Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp Tyr Glu  
 1 5 10 15

Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu  
 20 25

&lt;210&gt; 717

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys  
 1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln  
 20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu  
 35 40 45

Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His  
 50 55 60

Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile Leu Ser  
 65 70 75 80

Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys Lys Lys  
 85 90 95

Lys Asn Ser Arg Gly Gly Pro Val Pro Ile Arg Pro Lys Ser  
 100 105 110

&lt;210&gt; 718

&lt;211&gt; 99

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 718

tagcatgtag ccagtcgaat aacntataag gacaaagtgg agtccacgcg tgcggccgctc 60

tagactagtg gatcccccggtg ctgcaggatt cggcaccag 99

&lt;210&gt; 719

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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 202200 2922550

&lt;400&gt; 719

Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys  
 1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln  
 20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu  
 35 40 45

Val Phe Lys  
 50

&lt;210&gt; 720

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

Pro Val Arg Tyr Met Gln Pro His Arg Ser Ser Leu Cys Leu His Phe  
 1 5 10 15

Thr Ser Tyr Val Phe Ile Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr  
 20 25 30

Ser Thr Asp Leu Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Val  
 35 40 45

Pro Ile Arg Pro Lys Ser  
 50

&lt;210&gt; 721

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 721

Gly Glu Glu Gln Arg Asp Cys Ser Leu Gly Trp Arg Gly Val Gly Met  
 1 5 10 15

Arg Ala Thr His Cys Gln Ala Ala Arg Met Phe Val Leu Phe Ser Leu  
 20 25 30

Pro Lys Tyr Ala Gly Leu  
 35

&lt;210&gt; 722

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 722

Thr Ser Gly Ser Pro Gly Cys Arg Ile Arg His Glu Leu Pro Gly Glu  
 1 5 10 15

0633767 0633767  
 2926560 2926560

Glu Gln Arg Asp Cys Ser Leu Gly Trp Arg Gly Val Gly Met Arg Ala  
                   20                  25                  30

Thr His Cys Gln Ala Ala Arg  
                   35

<210> 723

<211> 128

<212> PRT

<213> Homo sapiens

<400> 723

Glu Pro Pro Ile Ala Lys Gln Gln Glu Cys Ser Cys Phe Phe Pro Phe  
   1                  5                  10                  15

Gln Asn Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys  
                   20                  25                  30

Leu Cys Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser  
           35                  40                  45

Arg Gln Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln  
           50                  55                  60

Asn Leu Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln  
   65                  70                  75                  80

Pro His Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile  
                   85                  90                  95

Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys  
           100                  105                  110

Lys Lys Lys Asn Ser Arg Gly Gly Pro Val Pro Ile Arg Pro Lys Ser  
           115                  120                  125

<210> 724

<211> 31

<212> PRT

<213> Homo sapiens

<400> 724

Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys Phe Ser Cys Pro Cys Ser  
   1                  5                  10                  15

Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln Gly Gly Arg Arg Phe  
           20                  25                  30

<210> 725

<211> 23

<212> PRT

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<213> Homo sapiens

<400> 725

Asn Gln Phe Thr Ser Cys Ile Leu Phe Cys Asp Gly Gly His Trp Arg  
1 5 10 15

Glu Leu Leu Phe Gln Ser Ile  
20

<210> 726

<211> 101

<212> PRT

<213> Homo sapiens

<400> 726

Ala Met Ser Ser Lys Leu Leu Asn Leu Leu Ala Leu Leu Gln Tyr Ser  
1 5 10 15

Val His Asp His Cys His Pro Arg Arg Leu Leu Lys Arg Gly Ala Arg  
20 25 30

Ala Thr Leu Arg His Lys Gly Trp Gly Pro Ser Ser Leu Arg Gly Cys  
35 40 45

Glu Ser Phe Gln Ile Val Leu Ile Gly Trp Gly Pro Asp Leu Ala Val  
50 55 60

Gly Phe Gly Arg Gly Lys Leu Leu Ser Arg Ser Leu Pro Val Arg His  
65 70 75 80

Gly Gly Val Ser Glu Phe Cys Leu Pro His Arg Asp Val Val Arg Leu  
85 90 95

Glu Lys Val Lys Lys  
100

<210> 727

<211> 33

<212> PRT

<213> Homo sapiens

<400> 727

Gly Pro Ser Ser Leu Arg Gly Cys Glu Ser Phe Gln Ile Val Leu Ile  
1 5 10 15

Gly Trp Gly Pro Asp Leu Ala Val Gly Phe Gly Arg Gly Lys Leu Leu  
20 25 30

Ser

<210> 728

<211> 32

<212> PRT

<213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 728  
 Thr Arg Lys Asn Ile Asp Phe Xaa Glu Thr Glu Lys Tyr Tyr Leu Phe  
 1 5 10 15  
 Ser Phe Ser Asn Val Ser Phe Lys Asn Phe Trp Leu Lys Tyr Asn  
 20 25 30

<210> 729  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 729  
 Met Pro Arg Lys Thr Ser Lys Cys Arg Gln Leu Leu Cys Ser Gly Ala  
 1 5 10 15  
 Ser Arg Asn Ala Asp Thr Ala Ala Arg Gln Ser Thr Cys Ser Ser His  
 20 25 30  
 Arg Pro Pro Gly Lys Ile Pro Ser Leu Gly Pro Arg Arg Xaa Pro Gly  
 35 40 45  
 Cys Xaa Ser Val Pro Ser Ser Arg Gly Glu Gln Ser Thr Gly Ser Pro  
 50 55 60  
 Ala Ala Pro Arg Cys Gly Arg Arg Asp Ala His Arg Gly Leu Pro Gly  
 65 70 75 80  
 Gly Ala Ala Met Thr Pro Gly Asp Thr Trp Ala Ser Phe Asn Pro Arg  
 85 90 95  
 Ala Gly His Ser Lys Ser Gln Gly Glu Gly Gln Glu Ser Ser Gly Ala  
 100 105 110  
 Ser Arg Gln Asp Arg His Pro Val Ser His Trp Val Glu Arg Gln Arg  
 115 120 125  
 Glu Ala Trp Gly Ala Pro Arg Ser Ser Ser Ala Gly Gly Val Lys Val

TO220 729 161 PRT Homo sapiens

Arg Ser Ser Ser Ala Gly Gly Val Lys Val Ala Ala Thr Thr Glu Arg  
35 40 45

Glu Pro Glu Phe Lys Ile Lys Thr Gly Lys Ala  
50 55

<210> 732  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 732  
Ile Arg His Glu Gly Lys Arg Met Leu Asn Glu Ser Arg Lys Pro Leu  
1 5 10 15  
Ser Phe Ala Ser Arg Leu Ser Ser Leu Tyr Phe Lys Leu Gly Phe Pro  
20 25 30  
Phe Cys Gly Arg Ser Asn Leu Tyr Ser Thr Cys Thr Ala Ala Pro Gly  
35 40 45  
Gly Ser Pro Gly Leu Pro Leu Pro Phe Tyr Pro Val Ala Asp Gly  
50 55 60

<210> 733  
<211> 176  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 733  
Thr Arg Ala Glu Ser Leu Phe Pro Leu Leu His Ala Phe Pro Val Phe  
1 5 10 15  
Ile Leu Asn Ser Gly Ser Leu Ser Val Val Ala Ala Thr Phe Thr Pro  
20 25 30  
Pro Ala Leu Leu Leu Leu Gly Ala Pro Gln Ala Ser Leu Cys Leu Ser  
35 40 45  
Thr Gln Trp Leu Thr Gly Cys Leu Ser Cys Leu Asp Ala Pro Leu Leu  
50 55 60  
Ser Cys Pro Ser Pro Trp Leu Leu Leu Cys Pro Ala Leu Gly Leu Lys  
65 70 75 80  
Leu Ala His Val Ser Pro Gly Val Met Ala Ala Pro Pro Gly Arg Pro  
85 90 95  
Leu Cys Ala Ser Arg Leu Pro His Leu Gly Ala Ala Gly Glu Pro Val  
100 105 110  
Leu Cys Ser Pro Arg Leu Leu Gly Thr Glu Leu Gln Pro Gly Xaa Leu  
115 120 125

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Cys Ser Val Pro Leu Gly Cys Leu Ala Gln Ser Cys Ser Leu Gly Xaa

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<210> 737
<211> 29
<212> PRT
<213> Homo sapiens
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<210> 738
<211> 235
<212> PRT
<213> Homo sapiens
```

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<400> 738
Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro
 1          5          10          15
Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser
      20          25          30
Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro
      35          40          45
Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln
      50          55          60
Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro
      65          70          75          80
Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro
      85          90          95
Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly
      100          105          110
Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile
      115          120          125

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Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr  
130 135 140

Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met  
145 150 155 160

Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser  
165 170 175

His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser  
180 185 190

Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro  
195 200 205

Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser  
210 215 220

Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val  
225 230 235

<210> 739

<211> 114

<212> PRT

<213> Homo sapiens

<400> 739

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro  
1 5 10 15

Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser  
20 25 30

Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro  
35 40 45

Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln  
50 55 60

Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro  
65 70 75 80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro  
85 90 95

Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly  
100 105 110

Asn Tyr

<210> 740

<211> 81

<212> PRT

<213> Homo sapiens

093767 082230 2922560

<400> 743

Arg Arg Glu Thr Cys Glu His Ser Ser Glu Ala Lys Ala Phe His Asp  
 1 5 10 15

Tyr Pro Phe

<210> 744  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 744  
 Thr Ile Thr Leu Phe Gln Ser Ala Trp Cys Phe Phe Ser Lys Tyr Cys  
 1 5 10 15

Thr Asp Phe Thr  
 20

<210> 745  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 745  
 Val Arg Gly Cys Glu Asp Gly Gly Gly Gly Gly Ile Trp Gly Gly Trp  
 1 5 10 15

Trp Pro Gly Gln Gln Met Ala Pro Pro Trp Leu Ser Cys Pro His Arg  
 20 25 30

Gln Phe Pro His Phe His Ser Gly Arg Gln Arg Arg Gln Ser Asp Leu  
 35 40 45

Leu Lys Glu Glu Leu Pro Gln Pro Ser Gly Ala Ala Gly Arg Ala Ser  
 50 55 60

Gly Asn Lys Pro Tyr Thr Pro Pro Pro Ala Ser Asn Ser Leu Thr Leu  
 65 70 75 80

Arg Leu Leu Ser Phe Arg Phe Asn Ala Phe Asn Arg Ser His Pro Gln  
 85 90 95

Pro Ser Leu Asn Tyr Lys Asp Arg Gln  
 100 105

<210> 746  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 746  
 Pro Trp Leu Ser Cys Pro His Arg Gln Phe Pro His Phe His Ser Gly  
 1 5 10 15

Arg Gln Arg Arg Gln Ser Asp Leu Leu

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25

<210> 747  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 747  
 Arg Leu Leu Ser Phe Arg Phe Asn Ala Phe Asn Arg Ser His Pro Gln  
           1                  5                  10                  15  
 Pro Ser Leu Asn  
                   20

<210> 748  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 748  
 Arg Asp Ser Ser Leu Trp Ala Ala Ala Leu Ser Phe Arg Gln Gln Cys  
           1                  5                  10                  15  
 Ser Ser Leu Ala Ser Cys Leu Val Ser Met Tyr Ser Arg Pro Gly Arg  
                   20                  25                  30  
 Gln His Arg Ala Lys Ala Gly Ala Gly Ser Gln Thr Glu Gln Cys Trp  
           35                  40                  45  
 Gly Arg Lys Val Asp Ala Val Val  
           50                  55

<210> 749  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 749  
 Cys Leu Val Ser Met Tyr Ser Arg Pro Gly Arg Gln His Arg Ala Lys  
           1                  5                  10                  15  
 Ala Gly Ala Gly Ser Gln Thr Glu Gln Cys Trp  
                   20                  25

<210> 750  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 750  
 Pro Glu His Gly Phe Ser Ser Cys Asp Phe Trp Glu Gly Ala Pro Ser  
           1                  5                  10                  15  
 Ser Gly Pro Lys Glu Gly Gly Arg Ser Pro Pro Gln Leu Ala Cys Val

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20                      25                      30  
 Trp Gly Met Asn Leu Ser Ser Pro Pro Cys Leu Ala Leu Leu Thr Asn  
                     35                      40                      45  
 Arg Ala Cys Leu Ala Val Asn Trp His Arg Val Thr Leu Phe Pro Gly  
                     50                      55                      60  
 Ile Gln Val Cys Asn Gln Asn Thr Gly Glu Glu Lys Leu Gln Asp Pro  
                     65                      70                      75                      80  
 Cys Pro His Leu Ser Ser  
                     85

<210> 751  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 751  
 Arg Ser Pro Pro Gln Leu Ala Cys Val Trp Gly Met Asn Leu Ser Ser  
                     1                      5                      10                      15  
 Pro Pro Cys Leu Ala Leu Leu Thr Asn Arg Ala Cys Leu Ala  
                     20                      25                      30

<210> 752  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 752  
 Cys Glu Arg Asp Ser Glu Thr Ser Ser Ile Ala Met Thr Cys Ile Lys  
                     1                      5                      10                      15  
 His Lys Pro Pro Lys Gln Lys Lys Arg Leu Ser Leu Leu Pro Gly Phe  
                     20                      25                      30  
 Arg Ser Ala Leu Pro Arg Val Cys Arg Cys His Met Ile Thr Val Gln  
                     35                      40                      45  
 Arg Glu Ala Phe Arg Thr His Thr Gly Cys Ser Thr Ser Val His Leu  
                     50                      55                      60  
 Pro Ser Arg Gly Gly Phe Leu Pro Asp Phe  
                     65                      70

<210> 753  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 753  
 Lys Lys Arg Leu Ser Leu Leu Pro Gly Phe Arg Ser Ala Leu Pro Arg  
                     1                      5                      10                      15

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<210> 757  
<211> 27



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 757

Gln Val Ile Leu Pro Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp  
 1 5 10 15

Thr Leu Thr His Ile Ser Lys Ser Asp Ala Ser  
 20 25

&lt;210&gt; 758

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 758

Ser Thr His Asp Leu Thr Arg Trp Glu Leu Tyr Glu Pro Cys Cys Gln  
 1 5 10 15

Leu Leu Gln Lys Ala Val Asp Thr Gly Xaa Val Pro His Gln Val  
 20 25 30

&lt;210&gt; 759

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 759

Thr Ser Phe Leu Phe Pro Leu Gln Ala Phe Val Leu Leu Ser Asp Leu  
 1 5 10 15

Leu Leu Ile Phe Ser Pro Gln Met Ile Val Gly Gly Arg Asp Phe Leu  
 20 25 30

Arg Pro Leu Val Phe Phe Pro Glu Ala Thr Leu Gln Ser Glu Leu Ala  
 35 40 45

Ser Phe Leu Met Asp His Val Phe Ile Gln Pro Gly Asp Leu Gly Ser  
 50 55 60

Gly Ala  
 65

&lt;210&gt; 760

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 760

Gly Trp Gly Ala Cys Ser Tyr Leu Leu Cys Asn Pro Glu Phe Thr Phe

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<400> 761
Val Trp Val Leu Asp Gly Ile Met Gly Thr Glu Glu Ser Val Ser Ser
  1                               10                      15

Phe Phe Pro Phe Lys Pro Leu Cys Pro Gln Lys Gln Leu Ser Ser Leu
  20                               25                      30

Arg Asp Arg Met Val Ala Phe Cys Glu Leu Cys Gln Ser Cys Leu Ser
  35                               40                      45

Asp Val Asp Thr Glu Ile Gln Glu Gln Val Ser Thr Asp Ser Ser Gly
  50                               55                      60

Ser Asn Lys Ala Ser Ile Pro Ala Pro Ile Pro Arg Arg Asn
  65                               70                      75

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<400> 762  
Asn Ala Ser Leu Pro Ser Thr Ser Glu Trp Leu Ser Ser Ser Pro  
1 5 10 15  
Ser Arg Phe Tyr Trp Cys Leu Trp Ser Trp Phe Pro Leu Phe Ser  
20 25 30

Ser Ile Thr Phe Pro Phe Leu Pro Gln Ser Thr His Asp Leu Thr Arg  
35 40 45

Trp Glu Leu Tyr Glu Pro Cys Cys Gln Leu Leu Gln Lys Ala Val Asp  
50 55 60

Thr Gly Xaa Val Pro His Gln Val Ser Gly Gln Ala Arg Asp Gly Leu  
65 70 75 80

Gly Ala Gly Gly Leu Xaa Phe Lys Asp Leu Arg Ser Arg Trp Pro Leu  
85 90 95

Gly Val Ser Ser Leu Ser Ala Trp Ser Gly Gln Ser Glu Glu Asp Gln  
100 105 110

Val Gly Gly Gly His Leu Leu His Ser Ser Leu Arg Arg Trp Thr Leu  
115 120 125

Leu Pro Gly Ser Ser Trp Ile Ser Trp Lys Pro Arg Ile Ile Leu Arg  
130 135 140

Asp Ser Arg Arg Arg Arg Val Asn  
145 150

<210> 763

<211> 38

<212> PRT

<213> Homo sapiens

<400> 763

Val Leu Gly Glu Met Leu Leu Trp Ile Phe Phe Pro Ser Gln Ser Ser  
1 5 10 15

Phe Leu Asp Glu Asp Glu Val Tyr Asn Leu Ala Ala Thr Leu Lys Arg  
20 25 30

Leu Ser Ala Phe Tyr Lys  
35

<210> 764

<211> 44

<212> PRT

<213> Homo sapiens

<400> 764

Pro Lys Pro His Phe Ser Asn Pro Leu Leu Leu Gln Val Ile Leu Pro  
1 5 10 15

Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp Thr Leu Thr His Ile  
20 25 30

Ser Lys Ser Asp Ala Ser Pro Gly Glu Cys Gly Ser  
35 40

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<210> 765  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 765  
 His Cys Gln Phe Leu Leu Gly  
 1 5

<210> 766  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 766  
 Glu Phe Gly Thr Ser Leu Val Ala Leu Glu Leu His Glu Leu Leu Tyr  
 1 5 10 15  
 His Trp Glu Thr Arg Ala Gln Pro Ser Leu Ile Leu Tyr Val Val Ser  
 20 25 30  
 Asp Leu Arg Trp Met Glu Phe Arg Thr Ser Cys Leu Leu Phe Asp Phe  
 35 40 45  
 Val Leu Phe Leu Glu  
 50

<210> 767  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 767  
 Thr Lys Pro Gly Met Val Gly His Val Pro Ile Val Pro Ala Thr Lys  
 1 5 10 15  
 Xaa Ala Glu Ala Gly Gly Ser Pro Glu Pro Gly Ser Ser Thr Leu Gln  
 20 25 30  
 Trp Pro Met Ile Thr Pro Cys Thr Pro Ser Trp Ala Thr Glu Pro Asp  
 35 40 45  
 His Val Ser Glu Asp Glu  
 50

<210> 768  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 768

Leu Leu Tyr His Trp Glu Thr Arg Ala Gln Pro Ser Leu Ile Leu Tyr  
 1 5 10 15

Val Val Ser Asp Leu Arg Trp Met Glu Phe Arg Thr Ser Cys  
 20 25 30

&lt;210&gt; 769

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 769

Leu Ala Val Ser Thr Ser Phe Ile Cys Cys Ala Asp Ile Ser Thr Ala  
 1 5 10 15

Leu Pro Leu Gly Ser Ser Arg Pro Ala Pro Ala Pro Arg His Arg Glu  
 20 25 30

His Glu His Gly His Gln Ala Arg Pro Pro Arg Leu Leu Xaa Thr Ser  
 35 40 45

Leu Met Pro Leu Ser Thr Pro Ala Ala Ala Gln Leu Leu Trp Thr Gln  
 50 55 60

Leu Thr Pro Met Gly Gly Arg Pro Gly Gly Arg His Ser Pro Pro Thr  
 65 70 75 80

Leu His Thr Gly Pro Arg Ala Leu Pro Pro Gly Pro Pro His Pro Ser  
 85 90 95

Leu His Val Ala Ala Leu Ser Leu Leu Arg  
 100 105

&lt;210&gt; 770

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 770

Ala Pro Ala Val Pro His Gln Pro Pro Gly Thr Glu Ser Thr Ser Met

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<210> 774

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<400> 775
Cys Cys Ser Phe Gly Phe Tyr Tyr Met Val Gly Ser Asp Thr Ala Glu
  1          5          10          15
Lys Gln Gly Pro Ile Pro Gly Ser Gln Thr Gln Glu Gly Pro Trp Leu
          20          25          30
Ser Arg His Thr His Ser Pro Arg Ala Val Pro Glu Ser Ser Thr Ala
          35          40          45
Pro Ala Gln Pro Leu Leu Leu Pro Leu Pro Ala Pro Gln Ala Arg Arg
          50          55          60
Trp Ala Ser Asn Ala Asn Gly Trp Gly Trp Asp His Gln Arg Glu Gly
  65          70          75          80
Gln Ala Asn Tyr Pro Tyr Ser Ala Arg Pro Ala Pro His Asn Leu His
          85          90          95
Pro Gln Tyr Leu Asn Leu His Leu Gln Thr Gln Cys Tyr Ala Gln Gly
          100          105          110
Ser Gly Trp Val Leu Pro Ile Pro Gly Gln Leu Lys Val Gly Gly Pro
          115          120          125
Tyr Ile Leu Pro Glu Gly Leu Gln Gly Leu Cys Ser Ser Val His Pro
          130          135          140
His Asn Asn Pro Val Arg
145          150

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<210> 776  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 776  
 His Arg Gly Ala Lys Ser Leu Lys Ala Leu Arg Gln Tyr Ile Gly Ala  
           1                  5                  10                  15  
 Ala His Leu Gln Leu Pro Trp Asp Gly  
                   20                  25

<210> 777  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 777  
 Pro Ala Pro Gln Ala Arg Arg Trp Ala Ser Asn Ala Asn Gly Trp Gly  
           1                  5                  10                  15  
 Trp Asp His Gln Arg  
                   20

<210> 778  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 778  
 His Pro Gln Tyr Leu Asn Leu His Leu Gln Thr Gln Cys Tyr Ala Gln  
           1                  5                  10                  15  
 Gly Ser Gly Trp Val Leu Pro  
                   20

<210> 779  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 779  
 Thr Asn Gly Ile Met Gln Tyr Val Thr Phe Cys Val Trp Leu Ile Leu  
           1                  5                  10                  15  
 Phe Ser Ile Met Phe Leu Arg Phe Ile Gln Ala Val Ala Cys Ile Ser  
                   20                  25                  30  
 Thr Ser Phe Leu Phe Leu Ala Glu Tyr Tyr Ser Ile Ile Trp Ile Tyr  
           35                  40                  45  
 His Asn Ser Phe Thr Tyr Ser Ser Phe Val Ser Ala Val Trp Leu Leu  
           50                  55                  60

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 102280 292550



<210> 780  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 780  
 Tyr Asn Phe Met Phe Asn Phe Ser Lys Asn Cys Gln Lys Val Phe His  
   1                  5                  10                  15  
 Ser Gly Cys Ile Ile Tyr Ile Pro Thr Gly Asn Val Gln Gly Phe Leu  
                   20                  25                  30  
 Phe Phe His Ile Leu Ala Leu Thr Asn Thr Ser Phe Xaa Xaa Xaa Phe  
                   35                  40                  45  
 Cys Phe Phe Ile Ile Ala Thr Leu Val Asp Val Lys Trp His Leu Ile  
   50                  55                  60  
 Val Leu Ile Cys Ile Ser Leu Met Thr Asn Asp Ile Ile Leu Phe Leu  
   65                  70                  75                  80  
 Cys Ala Tyr Gly Ser Lys Val Phe Pro Trp Arg Asn Val Pro Ser Ser  
                   85                  90                  95  
 Pro Leu Pro Phe Gln Asn Leu Val Ile Cys Leu Leu Leu Phe Ser Phe  
                   100                  105                  110  
 Lys Lys Phe Trp Pro Gly Ala Val Ala His Leu  
   115                  120

<210> 781  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 782
<211> 25
<212> PRT
<213> Homo sapiens
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<210> 783
<211> 24
<212> PRT
<213> Homo sapiens
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<210> 784

<211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 784  
 Ala Leu Val Pro Ser Pro Gln Gln Ile Leu Pro Ser Cys Phe Ser Leu  
 1 5 10 15  
 Met Trp Gln Val Thr Thr Lys Ser Ala Leu Val Phe Phe Lys Cys Ile  
 20 25 30  
 Tyr Ile Pro Phe Leu Ser Ala Pro Ser Leu Pro Arg Leu Glu Asn Cys  
 35 40 45  
 Leu Ile Phe Cys Ser Leu Asp Val Gln Ser Gln Leu Val Phe Leu Ser  
 50 55 60  
 Ser Pro Pro Val Ala Gly Val Leu Phe Phe Phe Leu Leu Ser Pro Leu  
 65 70 75 80  
 Gly Ser Lys Ser Cys Ser Thr Val Glu Xaa  
 85 90

<210> 785  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 785  
 Ala Pro Ser Leu Pro Arg Leu Glu Asn Cys Leu Ile Phe Cys Ser Leu  
 1 5 10 15  
 Asp Val Gln Ser Gln Leu Val Phe Leu Ser  
 20 25

<210> 786  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 786  
 Ser Ser Pro Ser Arg Val Arg Leu Arg His Thr Pro Gly  
 1 5 10

<210> 787  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<220>

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<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 788
<211> 119
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 788
Gly Thr Ser Arg His Gly Gln Arg Pro Ile Ala Pro Gly Thr Pro Trp
 1                    5                10              15

Gln Arg Glu Pro Arg Val Glu Val Met Asp Pro Ala Gly Gly Pro Arg
          20                25              30

Gly Val Leu Pro Arg Pro Cys Arg Xaa Leu Val Leu Leu Asn Pro Arg
          35                40              45

Gly Gly Lys Gly Lys Ala Leu Gln Leu Phe Arg Ser His Val Gln Pro
 50                55              60

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Leu Val

<210> 792  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 792  
 Gln Xaa Arg Asn Leu Ala Gln Glu Ala Phe Lys Trp Ile Pro Gln Asp  
   1                  5                  10                  15  
 Arg Pro Thr Val Arg Ser Arg Xaa Arg Met Gly Leu Ser Ile Arg Leu  
                   20                  25                  30  
 Pro Ile Leu Ala Ser Asn Cys Cys Ala Leu Pro Phe Xaa Xaa Pro Thr  
           35                  40                  45  
 Ser Pro Leu Gln Cys Leu Trp Ser Cys His Cys Ser Phe Gln Ala Asn  
   50                  55                  60  
 Thr Gly Leu Ala Ser  
   65

<210> 793  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 793  
 Gln Met Thr Gln Glu Pro Pro Thr Ser Val Arg Ala His Gly Ile Ala  
   1                  5                  10                  15

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Ala Trp Gly Asn Gly Cys Arg Asp Lys Asn Thr Lys Arg Leu Ile Gln  
20 25 30

Tyr Trp Pro Glu Ser Cys Ser Gly Met Thr Lys Gly Thr Gly Val Gly  
35 40 45

Arg Trp Gly Glu Xaa Arg Ala Glu Arg Ser Ser  
50 55

<210> 794

<211> 21

<212> PRT

<213> Homo sapiens

<400> 794

His Gly Ile Ala Ala Trp Gly Asn Gly Cys Arg Asp Lys Asn Thr Lys  
1 5 10 15

Arg Leu Ile Gln Tyr  
20

<210> 795

<211> 13

<212> PRT

<213> Homo sapiens

<400> 795

Cys Glu Arg Ser Gly Tyr Thr Arg Met Ala Met Asp Thr  
1 5 10

<210> 796

<211> 132

<212> PRT

<213> Homo sapiens

<400> 796

Thr Gly Ser Ile Leu Ala Val Gly Lys Lys Tyr Ser Leu Gly Ser Tyr  
1 5 10 15

Ser Arg Gly Asp Trp His Met Arg Val Val Gly Leu Arg Gly Leu Gly  
20 25 30

Ala Ser Thr Leu Gln Gly Leu Leu Ile Gly Ile Lys Pro Asn Lys Pro  
35 40 45

Gln Gly Arg Gly Lys Leu Gln Gly Arg Ser Ser Arg Lys Asp Thr Val  
50 55 60

Leu Trp Pro Ser Pro Glu His Pro His Met Val Ser Met Ala Ile Leu  
65 70 75 80

Val Tyr Pro Asp Leu Ser His Tyr Ser Asn Pro His Ser Thr Pro Ala  
85 90 95

Ala Leu Leu Gly Cys Trp Pro Pro Phe Arg Glu Gly Glu Ile Leu Gly

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<210> 797
<211> 29
<212> PRT
<213> Homo sapiens
```

```
<210> 798
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<210> 799
<211> 44
<212> PRT
<213> Homo sapiens
```

Pro Ala Ile Ala Ala Ala Ile Cys Ala Glu Asp Phe Pro Gln Arg His  
20 25 30

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<210> 800
<211> 23
<212> PRT
<213> Homo sapiens
```

<400> 800  
Thr Asn Thr Ala His Thr Pro Ala Ile Ala Ala Ala Ile Cys Ala Glu



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<210> 801
<211> 15
<212> PRT
<213> Homo sapiens
```

```
<210> 802
<211> 82
<212> PRT
<213> Homo sapiens
```

```
<210> 803
<211> 63
<212> PRT
<213> Homo sapiens
```

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<400> 803
Lys Pro Ser Pro Gly Leu Ala Tyr Cys Ser Leu Ser Trp Ser Phe His
  1                      5                      10                      15

Met Leu Phe Leu Asn Ile Cys Ser Gly Ile Thr Ile Pro Val Ile Leu
      20                      25                      30

Ser Ser Gly Pro Ser His Leu Ser Thr Leu Ser Leu Ala Val Ser Pro
      35                      40                      45

Arg Arg Pro Gly Thr Trp Val Lys Ala Cys Ser Cys Trp Cys Pro
  50                      55                      60

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<210> 804  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 804  
 Asn Lys Gln Ala Arg Ala Met Ala Phe Ile Phe Lys Gly Lys Asp Leu  
 1 5 10 15

Pro Phe Pro Phe Val Ser Gly Asp Ile  
 20 25

<210> 805  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 805  
 Tyr Leu Gly Ser Trp Arg Ser His Leu Tyr Cys Arg Leu Leu Pro Met  
 1 5 10 15

Asp Gln Val Ser Pro  
 20

<210> 806  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 806  
 Gly Ile Thr Ile Pro Val Ile Leu Ser Ser Gly Pro Ser His Leu Ser  
 1 5 10 15

Thr Leu Ser Leu Ala Val Ser Pro Arg  
 20 25

<210> 807  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 807  
 Leu Glu Arg Leu Gly Val Gly Arg Gly Leu Glu  
 1 5 10

<210> 808  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

&lt;221&gt; SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Asp Leu Pro Pro Cys Trp Thr Thr Leu Lys Glu His Gln Cys Phe Met  
1 5 10 15

Gln Tyr Gln Leu Phe Thr Ile Gln Cys Lys Val Val Glu Gln Thr Ile  
20 25 30

Cys Glu Asp Glu Arg Lys Met Glu Ser Thr Cys Leu Thr Leu Ala Xaa  
35 40 45

Pro Glu Ser Val Arg Gln Xaa Cys Pro Ala Thr Leu Trp Ser Ser Met  
50 55 60

Asn Ile Cys  
65

<211> 49

<213> Homo sapiens

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Thr Asn Arg Val Xaa Leu Ser Trp Arg Lys Glu Glu Gln Arg Met Gly  
1 5 10 15

Arg Thr Glu Thr Gly Ala Lys Asp Lys Gly Arg Asp Phe Leu Glu Arg  
20 25 30

Gly Ser Arg Gly Trp Gln Leu Tyr Thr Gly Ala Ala Asp Thr Glu Glu  
35 40 45

val

<211> 207

<213> Homo sapiens

Glu Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu  
1 5 10 15

Met Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly  
 20 25 30

Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser  
 35 40 45

Ser Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met  
 50 55 60

Gln Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg  
 65 70 75 80

Val Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile  
 85 90 95

Asn Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp  
 100 105 110

Asp Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr  
 115 120 125

Gln Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val  
 130 135 140

Ala Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu  
 145 150 155 160

Arg Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe  
 165 170 175

Gly Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met  
 180 185 190

Arg Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser Ile Ile Gln Gly  
 195 200 205

<210> 811  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 811  
 Ala Leu Leu Lys Tyr Arg Phe Phe Tyr Gln Phe Leu Leu Gly Asn Glu  
 1 5 10 15

Arg Ala Thr Ala Lys Glu Ile Arg Asp Glu Tyr Val Glu Thr Leu Ser  
 20 25 30

Lys Ile Tyr Leu Ser Tyr Tyr Arg Ser Tyr Leu Gly Arg Leu Met Lys  
 35 40 45

Val Gln Tyr Glu Glu Val Ala Glu Lys Asp Asp Leu Met Gly Val Glu

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50                      55                      60

Asp Thr Ala Lys Lys Gly Phe Xaa Ser Lys Pro Ser Leu Arg Ser Arg  
65                      70                      75                      80

Asn Thr Ile Phe Thr Leu Gly Thr Arg Gly Ser Val Ile Ser Pro Thr  
85                      90                      95

Glu Leu Glu Ala Pro Ile Leu Val Pro His Thr Ala Gln Arg  
100                      105                      110

<210> 812  
<211> 97  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812  
Glu Gln Arg Tyr Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa  
1                      5                      10                      15

Leu Leu Asp Asn Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe  
20                      25                      30

Val Val Ser Gly Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly  
35                      40                      45

Arg Thr Leu Ser Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp  
50                      55                      60

Cys Tyr Asp Ala Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg  
65                      70                      75                      80

Phe Arg Asn Ile Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr  
85                      90                      95

Trp

<210> 813  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 813  
Gly Gly Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu  
1                      5                      10                      15

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Phe Ser Ser Ala Leu Val Ser Ile Asn Gln  
                   20                  25

<210> 814  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 814  
 Ser Arg Lys Glu Gln Leu Val Phe Leu Ile Asn Asn Tyr Asp Met Met  
   1                  5                  10                  15  
 Leu Gly Val Leu  
                   20

<210> 815  
 <211> 411  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (149)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 815  
 Ala Leu Leu Lys Tyr Arg Phe Phe Tyr Gln Phe Leu Leu Gly Asn Glu  
   1                  5                  10                  15  
 Arg Ala Thr Ala Lys Glu Ile Arg Asp Glu Tyr Val Glu Thr Leu Ser  
                   20                  25                  30  
 Lys Ile Tyr Leu Ser Tyr Tyr Arg Ser Tyr Leu Gly Arg Leu Met Lys  
                   35                  40                  45  
 Val Gln Tyr Glu Glu Val Ala Glu Lys Asp Asp Leu Met Gly Val Glu  
                   50                  55                  60  
 Asp Thr Ala Lys Lys Gly Phe Xaa Ser Lys Pro Ser Leu Arg Ser Arg  
   65                  70                  75                  80

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Asn	Thr	Ile	Phe	Thr	Leu	Gly	Thr	Arg	Gly	Ser	Val	Ile	Ser	Pro	Thr
				85					90					95	
Glu	Leu	Glu	Ala	Pro	Ile	Leu	Val	Pro	His	Thr	Ala	Gln	Arg	Xaa	Glu
				100				105					110		
Gln	Arg	Tyr	Pro	Phe	Glu	Ala	Leu	Phe	Arg	Ser	Gln	His	Tyr	Xaa	Leu
				115			120					125			
Leu	Asp	Asn	Ser	Cys	Arg	Glu	Tyr	Leu	Phe	Ile	Cys	Glu	Phe	Phe	Val
				130		135					140				
Val	Ser	Gly	Pro	Xaa	Ala	His	Asp	Leu	Phe	His	Ala	Val	Met	Gly	Arg
				145		150				155					160
Thr	Leu	Ser	Met	Thr	Leu	Lys	His	Leu	Asp	Ser	Tyr	Leu	Ala	Asp	Cys
				165					170					175	
Tyr	Asp	Ala	Ile	Ala	Val	Phe	Leu	Cys	Ile	His	Ile	Val	Leu	Arg	Phe
				180				185					190		
Arg	Asn	Ile	Ala	Ala	Lys	Arg	Asp	Val	Pro	Ala	Leu	Asp	Arg	Tyr	Trp
				195			200					205			
Glu	Gln	Val	Leu	Ala	Leu	Leu	Trp	Pro	Arg	Phe	Glu	Leu	Ile	Leu	Glu
				210		215					220				
Met	Asn	Val	Gln	Ser	Val	Arg	Ser	Thr	Asp	Pro	Gln	Arg	Leu	Gly	Gly
				225		230			235					240	
Leu	Asp	Thr	Arg	Pro	His	Tyr	Ile	Thr	Arg	Arg	Tyr	Ala	Glu	Phe	Ser
				245					250					255	
Ser	Ala	Leu	Val	Ser	Ile	Asn	Gln	Thr	Ile	Pro	Asn	Glu	Arg	Thr	Met
				260				265					270		
Gln	Leu	Leu	Gly	Gln	Leu	Gln	Val	Glu	Val	Glu	Asn	Phe	Val	Leu	Arg
				275			280					285			
Val	Ala	Ala	Glu	Phe	Ser	Ser	Arg	Lys	Glu	Gln	Leu	Val	Phe	Leu	Ile
				290		295					300				
Asn	Asn	Tyr	Asp	Met	Met	Leu	Gly	Val	Leu	Met	Glu	Arg	Ala	Ala	Asp
				305		310			315						320
Asp	Ser	Lys	Glu	Val	Glu	Ser	Phe	Gln	Gln	Leu	Leu	Asn	Ala	Arg	Thr
				325					330					335	
Gln	Glu	Phe	Ile	Glu	Glu	Leu	Leu	Ser	Pro	Pro	Phe	Gly	Gly	Leu	Val
				340				345					350		
Ala	Phe	Val	Lys	Glu	Ala	Glu	Ala	Leu	Ile	Glu	Arg	Gly	Gln	Ala	Glu
				355			360					365			
Arg	Leu	Arg	Gly	Glu	Glu	Ala	Arg	Val	Thr	Gln	Leu	Ile	Arg	Gly	Phe
				370		375					380				

Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa Leu Leu Asp Asn  
20 25 30



Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe Val Val Ser Gly  
35 40 45

Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly Arg Thr Leu Ser  
50 55 60

Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp Cys Tyr Asp Ala  
65 70 75 80

Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg Phe Arg Asn Ile  
85 90 95

Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr Trp Gly Thr Gly  
100 105 110

Ala Cys Leu Ala Met Ala Thr Val  
115 120

<210> 818

<211> 303

<212> PRT

<213> Homo sapiens

<400> 818

Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu  
1 5 10 15

Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn Thr Ser Asp Asp Pro Trp  
20 25 30

Leu Thr Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe  
35 40 45

Leu Asp Gln Val Ala Lys Phe Ile Ile Asp Asn Thr Lys Gly Gln Met  
50 55 60

Leu Gly Leu Gly Asn Pro Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly  
65 70 75 80

Arg Tyr Val Pro Gly Ser Ser Gly Ser Ser Asn Thr Leu Pro Thr Ala  
85 90 95

Asp Pro Phe Thr Gly Ala Gly Arg Tyr Val Pro Gly Ser Ala Ser Met  
100 105 110

Gly Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr  
115 120 125

Arg Ser Ala Ala Ser Lys Thr Met Asn Ile Tyr Phe Pro Lys Lys Glu  
130 135 140

Ala Val Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu  
145 150 155 160

Lys Glu Leu Asn Gly Thr Ala Pro Glu Glu Lys Lys Leu Thr Glu Asp  
165 170 175

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Asp Leu Ile Leu Leu Glu Lys Ile Leu Ser Leu Ile Cys Asn Ser Ser  
180 185 190

Ser Glu Lys Pro Thr Val Gln Gln Leu Gln Ile Leu Trp Lys Ala Ile  
195 200 205

Asn Cys Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu  
210 215 220

Ser Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu  
225 230 235 240

Gly Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly  
245 250 255

Lys Pro Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe  
260 265 270

Val Gly Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu  
275 280 285

Met Ser His Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile  
290 295 300

<210> 819

<211> 18

<212> PRT

<213> Homo sapiens

<400> 819

His Ile Ala Leu Ala Thr Leu Ala Leu Asn Tyr Ser Val Cys Phe His  
1 5 10 15

Lys Asp

<210> 820

<211> 49

<212> PRT

<213> Homo sapiens

<400> 820

His Asn Ile Glu Gly Lys Ala Gln Cys Leu Ser Leu Ile Ser Thr Ile  
1 5 10 15

Leu Glu Val Val Gln Asp Leu Glu Ala Thr Phe Arg Leu Leu Val Ala  
20 25 30

Leu Gly Thr Leu Ile Ser Asp Asp Ser Asn Ala Val Gln Leu Ala Lys  
35 40 45

Ser

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<210> 821  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 821  
 Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr Ser Ser Val Ser Glu Pro  
           1                  5                  10                  15  
 Ala Lys Val Ser Glu Cys Cys Arg Phe Ile Leu Asn Leu Leu  
                   20                  25                  30

<210> 822  
 <211> 400  
 <212> PRT  
 <213> Homo sapiens

<400> 822  
 Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu  
           1                  5                  10                  15  
 Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn Thr Ser Asp Asp Pro Trp  
                   20                  25                  30  
 Leu Thr Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe  
           35                  40                  45  
 Leu Asp Gln Val Ala Lys Phe Ile Ile Asp Asn Thr Lys Gly Gln Met  
           50                  55                  60  
 Leu Gly Leu Gly Asn Pro Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly  
           65                  70                  75                  80  
 Arg Tyr Val Pro Gly Ser Ser Gly Ser Ser Asn Thr Leu Pro Thr Ala  
                   85                  90                  95  
 Asp Pro Phe Thr Gly Ala Gly Arg Tyr Val Pro Gly Ser Ala Ser Met  
           100                  105                  110  
 Gly Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr  
           115                  120                  125  
 Arg Ser Ala Ala Ser Lys Thr Met Asn Ile Tyr Phe Pro Lys Lys Glu  
           130                  135                  140  
 Ala Val Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu  
           145                  150                  155                  160  
 Lys Glu Leu Asn Gly Thr Ala Pro Glu Glu Lys Lys Leu Thr Glu Asp  
           165                  170                  175  
 Asp Leu Ile Leu Leu Glu Lys Ile Leu Ser Leu Ile Cys Asn Ser Ser  
           180                  185                  190  
 Ser Glu Lys Pro Thr Val Gln Gln Leu Gln Ile Leu Trp Lys Ala Ile  
           195                  200                  205

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<210> 823
<211> 29
<212> PRT
<213> Homo sapiens
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<210> 824
<211> 29
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 824

Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu Gly  
 1 5 10 15

Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro  
 20 25

&lt;210&gt; 825

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile His Ile Ala Leu  
 1 5 10 15

Ala Thr Leu Ala Leu Asn  
 20

&lt;210&gt; 826

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

Val Gln Leu Ala Lys Ser Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr  
 1 5 10 15

Ser Ser Val Ser Glu Pro Ala  
 20

&lt;210&gt; 827

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 827

Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu  
 1 5 10 15

Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn  
 20 25

&lt;210&gt; 828

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 828

Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe Leu Asp  
 1 5 10 15

Gln Val Ala Lys Phe Ile Ile Asp Asn Thr  
 20 25

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<210> 829  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 829  
 Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly Arg Tyr Val Pro Gly  
 1 5 10 15

<210> 830  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 830  
 Thr Ala Asp Pro Phe Thr Gly Ala Gly Arg Tyr  
 1 5 10

<210> 831  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 831  
 Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr Arg  
 1 5 10 15

Ser Ala Ala

<210> 832  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 832  
 Asn Ile Tyr Phe Pro Lys Lys Glu Ala  
 1 5

<210> 833  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 833  
 Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu Lys Glu  
 1 5 10 15

Leu Asn Gly

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<210> 834  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 834  
 Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu Ser Ile  
           1                  5                  10                  15  
 Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu  
                   20                  25                  30

<210> 835  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 835  
 Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly Lys Pro  
           1                  5                  10                  15  
 Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe Val  
                   20                  25                  30

<210> 836  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 836  
 Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu Met Ser  
           1                  5                  10                  15  
 His Ala Ile Glu Leu Lys Ser Gly Ser Asn  
                   20                  25

<210> 837  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 837  
 Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu  
           1                  5                  10                  15  
 His Ile Gln Arg Leu Ser Lys Val Val Thr Ala Asn His Arg Ala Leu  
                   20                  25                  30  
 Gln Ile Pro Glu Val Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln  
                   35                  40                  45  
 Ser Glu Ile Arg Thr Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val  
           50                  55                  60  
 Gln Cys Ile Leu Arg Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu

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<210> 838
<211> 144
<212> PRT
<213> Homo sapiens
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<210> 839
<211> 14
<212> PRT
<213> Homo sapiens
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<400> 839



Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu  
 1 5 10

<210> 840  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 840  
 Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile  
 1 5 10

<210> 841  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 841  
 Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu  
 1 5 10 15

Phe Ile Lys Thr Ile  
 20

<210> 842  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 842  
 Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn  
 1 5 10 15

Pro Pro

<210> 843  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 843  
 Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu  
 1 5 10

<210> 844  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 844  
 Gly Ala Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys  
 1 5 10 15

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<210> 849
<211> 20
<212> PRT
<213> Homo sapiens
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Thr Pro Gly Ile  
20

<213> Homo sapiens

Asp

<213> Homo sapiens

Ala Leu Leu Ala  
20

<213> Homo sapiens

Trp Leu Ile Leu  
20

<213> Homo sapiens

Pro Cys Met Pro Gly Arg Trp Arg Trp Gln Arg Asp

25

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<400> 854
Tyr Ile Val Gln Gly Thr Thr Ser Pro Phe Glu Met Pro Thr Ile Pro
  1             5             10             15
Thr Pro Ala Arg His Arg Ala Pro His Ser Pro Pro Ala Gly His Val
             20             25             30
Ala Thr Ala Pro Gln Ala Leu His Ile Lys Pro Ala Met His Thr Ala
             35             40             45
Gly Arg His Ala Gly Cys Pro Ser Arg Ser Gln Arg His Asn Pro His
             50             55             60
Arg Leu Phe Leu Glu Pro Pro Arg Ala Ala Leu Cys Pro Lys Gly Gly
             65             70             75             80

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<400> 855
Ala Ser Asn Ala His Ser Trp Pro Ala Arg Trp Leu Pro Phe Gln Val
  1                               10                      15
Ser Ala Ala Gln Ser Pro Pro Pro Val Ser Gly Ala Pro Lys Gly Ser
  20                      25                      30
Val Met Pro Lys Gly Arg Met Ser His Ser Gly Val Cys Val Gly Gly
  35                      40                      45
Arg Thr Lys Val Pro Pro Pro Leu Lys Met Pro Gly Val Leu Ala Ile
  50                      55                      60
Arg Leu Ser Leu Phe Pro Leu Gln Met Thr Ile Ala Ala Lys Asp Pro
  65                      70                      75                      80
Leu Val Leu Pro Phe Glu Leu Leu Ser Arg Glu Ser Gly Ala Ala Glu
  85                      90                      95

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$\langle 210 \rangle$	856
$\langle 211 \rangle$	27

<212> PRT  
 <213> Homo sapiens

<400> 856  
 Gly Arg Met Ser His Ser Gly Val Cys Val Gly Gly Arg Thr Lys Val  
 1 5 10 15  
 Pro Pro Pro Leu Lys Met Pro Gly Val Leu Ala  
 20 25

<210> 857  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 857  
 Gly His Gln Thr Ala Pro Glu Thr Pro Ser Arg Ser Asp  
 1 5 10

<210> 858  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 858  
 Ser Gln Thr Asp Arg  
 1 5

<210> 859  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 859  
 Asn Ile Tyr Phe Lys Glu Lys Arg Lys Arg Gly Gly Ala Lys Met Ala  
 1 5 10 15  
 Gly Ala Ile Ile Glu Asn  
 20

<210> 860  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 860  
 Val Tyr Leu Cys Ala Tyr Thr Ser Thr Ile Asn Val Thr Val Thr Thr  
 1 5 10 15  
 Ala Asn Ala Lys Leu Ile Asn Met Cys Cys Leu Val Asp Ser Asn Thr  
 20 25 30  
 Arg Ser Cys Val Val Ile Asp Glu Gly Ile Phe Arg Ser Ala Glu Gln  
 35 40 45

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Phe Leu Ile Lys Phe Arg Asn Lys Gln Ser Thr Ile Phe Pro Arg Phe  
     50                    55                    60  
 Thr Trp Glu Leu His Ser Ile Gly Leu Val Phe Ser Ile Val Phe Met  
     65                    70                    75                    80  
 Gly Trp Cys Ile Gln Glu His Gln Ser Lys Asp Ile Gln Ile Pro His  
                     85                    90                    95  
 Pro Ile Asp Ala Cys Glu Lys Gly Thr Val His Leu Asp Cys Asp Ala  
                     100                    105                    110  
 Ala Pro Phe Pro Met Ala Phe Arg Tyr Leu Thr Asn Asp Glu Glu Asp  
                     115                    120                    125  
 Asp Ser His Gly Ser Ala Gly Gln Gly Asp Lys His Glu Glu Leu Glu  
     130                    135                    140  
 Pro Lys Asn  
 145  
  
 <210> 861  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 861  
 Lys Met Pro Cys Arg Met Ser Pro Asn Ser Ser Ile Gln Val Gln Ser  
     1                    5                    10                    15  
 Asn Pro Met Glu Asn His Ser Thr Gly Ile Leu Ile Lys Val Met Glu  
                     20                    25                    30  
 Ile Pro Arg Ala Lys Met Thr Phe Ser Arg Ser Thr Gly Gly Arg Asp  
                     35                    40                    45  
 Ile Met Val Ile Leu Leu Gln Tyr His Thr Ile Met Met Lys Met Leu  
     50                    55                    60  
 Gly Val Arg Lys Val Phe Met Ala Asn His Thr Leu Val Lys Pro Pro  
     65                    70                    75                    80  
 Phe Trp Trp Ile Pro Thr Asn Arg Ile Ser Phe Ile Ser Pro Ile Pro  
                     85                    90                    95  
 Thr Leu Ile Phe Phe Phe Ser Phe Thr Gly Ser Arg Met Phe Lys Arg  
                     100                    105                    110

<210> 862  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

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Thr Thr Lys Ser Glu Lys Met Gln Lys Ser Pro Trp Thr Phe Pro Trp  
1 5 10 15

Leu Thr Val Met Thr His Leu Leu Ser Gly Leu Lys Trp Pro Met Lys  
20 25 30

Glu Tyr His Gly Asn Ser Asn Ala Pro Ser His Leu Pro Arg Leu Gln  
35 40 45

Ser Met Arg Ala Val Thr Met Asn Val Met Ser Phe Leu Ser Trp Lys  
50 55 60

Leu Gly Leu Trp Pro Ile Ser Phe Thr Phe  
65 70

<211> 31

<213> Homo sapiens

Ile Lys Phe Arg Asn Lys Gln Ser Thr Ile Phe Pro Arg Phe Thr Trp  
1 5 10 15

Glu Leu His Ser Ile Gly Leu Val Phe Ser Ile Val Phe Met Gly  
20 25 30

<211> 29

<213> Homo sapiens

Ser Ser Ile Gln Val Gln Ser Asn Pro Met Glu Asn His Ser Thr Gly  
1 5 10 15

Ile Leu Ile Lys Val Met Glu Ile Pro Arg Ala Lys Met  
20 25

<211> 33

<213> Homo sapiens

Leu Gly Val Arg Lys Val Phe Met Ala Asn His Thr Leu Val Lys Pro  
1 5 10 15

Pro Phe Trp Trp Ile Pro Thr Asn Arg Ile Ser Phe Ile Ser Pro Ile  
20 25 30

Pro

<210> 866  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 866  
 Thr Met Ala Ser Met Gly Leu Gln Val  
 1 5

<210> 867  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 867  
 Lys Ser Trp Met Met Leu Trp Ala Val Gln Asp Thr Gly Thr Ile Thr  
 1 5 10 15  
 Ile Arg Pro Ala Asn Arg Asn Thr Thr Pro Ala Thr Ile Met Val Leu  
 20 25 30  
 Ala Leu Ala Leu Ser Ser Ser Arg Gln Leu Val His Leu Pro Pro Thr  
 35 40 45  
 Thr Asp Ser Ser Thr Pro Arg Ala Ala Thr Met Met Leu Met Met Thr  
 50 55 60  
 Arg Ala Arg Ala Ala Cys Arg Ser Cys Gly Ser Ala Ser Ser Glu Ser  
 65 70 75 80  
 Tyr Thr Leu His Cys Ile Trp Pro Val Leu Cys Thr Thr Gln Phe Ile  
 85 90 95  
 His Arg Pro Ser Gln Met Val Cys Glu Val Thr Met Leu Leu Pro Met  
 100 105 110  
 Lys Ala Val Thr Arg His Met Gly Ser Ala Gln His Ser Met Thr Ala  
 115 120 125  
 Ser Gln Pro Arg Thr Ala Ser Ala Met Pro Ile Thr Cys Ser Pro Met  
 130 135 140  
 Glu Ala Ile Val Gln Arg Pro Arg Glu Leu Arg Thr Trp Lys Ala Glu  
 145 150 155 160  
 Gly Ile Arg Leu Trp Gly Pro  
 165

<210> 868  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 868

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Trp Thr Ala His Asn Ile Ile Gln Asp Phe Tyr Asn Pro Leu Val Ala  
20 25 30

<400> 873  
Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys Pro Tyr  
1 5 10

<400> 874  
Pro Phe Thr Ala Ile Ala Gly Ser Glu Ile Phe Ser Leu Glu  
1 5 10

<400> 875  
Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg  
1 5 10

<400> 876  
Val Val His Thr Val Ser Leu His Glu Ile Asp Val Ile Asn Ser Arg  
1 5 10 15

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<400> 877
Pro Gly Val Leu Phe Ile Asp Glu Val His Met Leu Asp Ile Glu
  1             5             10             15

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<210> 878

<211> 280  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (197)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

Ala Gly Ile Arg Gln Arg Phe Ser Ala Arg Leu Trp Gln Leu Val Ser  
 1 5 10 15

Ile Met Ala Thr Val Thr Ala Thr Thr Lys Val Pro Glu Ile Arg Asp  
 20 25 30

Val Thr Arg Ile Glu Arg Ile Gly Ala His Ser His Ile Arg Gly Leu  
 35 40 45

Gly Leu Asp Asp Ala Leu Glu Pro Arg Gln Ala Ser Gln Gly Met Val  
 50 55 60

Gly Gln Leu Ala Ala Arg Arg Ala Ala Gly Val Val Leu Glu Met Ile  
 65 70 75 80

Arg Glu Gly Lys Ile Ala Gly Arg Ala Val Leu Ile Ala Gly Gln Pro  
 85 90 95

Gly Thr Gly Lys Thr Ala Ile Ala Met Gly Met Ala Gln Ala Leu Gly  
 100 105 110

Pro Asp Thr Pro Phe Thr Ala Ile Ala Gly Ser Glu Ile Phe Ser Leu  
 115 120 125

Glu Met Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg Arg Ser Ile  
 130 135 140

Gly Val Arg Ile Lys Glu Glu Thr Glu Ile Ile Glu Gly Glu Val Val  
 145 150 155 160

Glu Ile Gln Ile Asp Arg Pro Ala Thr Gly Thr Gly Ser Lys Val Gly  
 165 170 175

Lys Leu Thr Leu Lys Thr Thr Glu Met Glu Thr Ile Tyr Asp Leu Gly  
 180 185 190

Thr Lys Met Ile Xaa Ser Leu Thr Lys Asp Lys Val Gln Ala Gly Asp  
 195 200 205

Val Ile Thr Ile Asp Lys Ala Thr Gly Lys Ile Ser Lys Leu Gly Arg  
 210 215 220

Ser Phe Thr Arg Ala Arg Glu Leu Arg Arg Tyr Gly Leu Pro Asp Gln  
 225 230 235 240

Val Arg Ala Val Pro Arg Trp Gly Ala Pro Glu Thr Gln Gly Gly Gly  
 245 250 255

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<210> 880
<211> 89
<212> PRT
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<400> 880

Ile Thr Arg Ile Arg Gly Thr Ser Tyr Gln Ser Pro His Gly Ile Pro  
20 25 30

Ile Asp Leu Leu Asp Arg Arg His Val Thr Leu Gln Gly Pro Val Glu  
35 40 45

Glu Gly Glu Ala Leu Asp Val Gln His Val Asp Leu Val Asp Glu Gln  
50 55 60

His Ser Arg Asp Asp Leu Arg Leu Ala Leu Leu Ala Pro Leu Ser His  
65 70 75 80

Leu Gly Ile Asp Leu Leu Thr Asp Phe  
85

<210> 881

<211> 30

<212> PRT

<213> Homo sapiens

<400> 881

<400> 881  
Tyr Asp Ala Met Gly Ser Gln Thr Lys Phe Val Gln Cys Pro Asp Gly  
1 5 10 15

Glu Leu Gln Lys Arg Lys Glu Val Val His Thr Val Ser Leu  
20 25 30

<210> 882

<211> 31

<212> PRT

<213> Homo sapiens

<400> 882

Lys Ala Glu Ile Ile Pro Gly Val Leu Phe Ile Asp Glu Val His Met  
1 5 10 15

Leu Asp Ile Glu Ser Phe Ser Phe Leu Asn Arg Ala Leu Glu Ser  
20 25 30

<210> 883

<211> 28

<212> PRT

<213> Homo sapiens

<400> 883

Glu Ala Thr Asn Arg Gly Ile Thr Arg Ile Arg Gly Thr Ser Tyr Gln  
1 5 10 15

Ser Pro His Gly Ile Pro Ile Asp Leu Leu Asp Arg

20

25

<210> 884  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 884  
 Met Arg Ser Ala Arg Pro Ser Leu Gly Cys Leu Pro Ser Trp Ala Phe  
 1 5 10 15

Ser Gln Ala Leu Asn Ile  
 20

<210> 885  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 885  
 Leu Leu Gly Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys  
 1 5 10 15

Glu Lys Gly Asn Phe Asn  
 20

<210> 886  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 886  
 Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr Leu Arg Leu  
 1 5 10 15

Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg  
 20 25

<210> 887  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 887  
 Thr Tyr Asn Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln  
 1 5 10 15

Arg Cys

<210> 888  
 <211> 43  
 <212> PRT

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<213> Homo sapiens

<400> 888

Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala  
 1 5 10 15  
 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp  
 20 25 30  
 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn  
 35 40

<210> 889

<211> 45

<212> PRT

<213> Homo sapiens

<400> 889

Ser Ile Tyr Glu Leu Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val  
 1 5 10 15  
 Leu Glu Tyr Ala Thr Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr  
 20 25 30  
 Ser Gln Ala Gly Phe Ser Gly Glu Asp Arg Leu Glu Gln  
 35 40 45

<210> 890

<211> 92

<212> PRT

<213> Homo sapiens

<400> 890

Ala Lys Leu Phe Cys Arg Thr Leu Glu Asp Ile Leu Ala Asp Ala Pro  
 1 5 10 15  
 Glu Ser Gln Asn Asn Cys Arg Leu Ile Ala Tyr Gln Glu Pro Ala Asp  
 20 25 30  
 Asp Ser Ser Phe Ser Leu Ser Gln Glu Val Leu Arg His Leu Arg Gln  
 35 40 45  
 Glu Glu Lys Glu Glu Val Thr Val Gly Ser Leu Lys Thr Ser Ala Val  
 50 55 60  
 Pro Ser Thr Ser Thr Met Ser Gln Glu Pro Glu Leu Leu Ile Ser Gly  
 65 70 75 80  
 Met Glu Lys Pro Leu Pro Leu Arg Thr Asp Phe Ser  
 85 90

<210> 891

<211> 43

<212> PRT

<213> Homo sapiens

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Gly His Leu Arg Thr Ser Trp Gln Met Pro Leu Ser Leu Arg Thr Thr  
85 90 95



Ala Ala Ser Leu Pro Thr Arg Asn Leu Gln Met Thr Ala Ala Ser Arg  
100 105 110

Cys Pro Arg Arg Phe Ser Gly Thr Cys Gly Arg Arg Lys Arg Lys Arg  
115 120 125

Leu Leu Trp Ala Ala  
130

<210> 894

<211> 87

<212> PRT

<213> Homo sapiens

<400> 894

Gly Val Cys Gln Val Ser Phe Met Gly Pro Ser Arg Pro Thr Pro His  
1 5 10 15

Pro Ser Pro Leu Pro Leu Pro Gly Asp Ala Glu Leu Ser Gln Trp Tyr  
20 25 30

Gln Gln Ala Pro Ser Pro Ser Gly Ser Trp Ser Cys Ser Ile Ile Gly  
35 40 45

Glu Pro Gln Gln Lys Asn Gly Glu Glu Glu Glu Ala Glu Phe Gly Val  
50 55 60

Leu Asn Pro Pro Ala Pro Thr Leu Gln His Gln Gly Cys Tyr Gly Leu  
65 70 75 80

Ser Cys Arg Ala Thr Leu Ala  
85

<210> 895

<211> 22

<212> PRT

<213> Homo sapiens

<400> 895

Thr Met Lys Leu Leu Lys Leu Arg Arg Asn Ile Val Lys Leu Ser Leu  
1 5 10 15

Tyr Arg His Phe Thr Asn  
20

<210> 896

<211> 22

<212> PRT

<213> Homo sapiens

<400> 896

Thr Leu Ile Leu Ala Val Ala Ala Ser Ile Val Phe Ile Ile Trp Thr  
1 5 10 15

Thr Met Lys Phe Arg Ile

20

<210> 897  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 897  
 Val Thr Cys Gln Ser Asp Trp Arg Glu Leu Trp Val Asp Asp Ala Ile  
   1                  5                  10                  15  
 Trp Arg Leu Leu Phe Ser Met Ile Leu Phe Val Ile  
           20                  25

<210> 898  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 898  
 Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser  
   1                  5                  10                  15  
 Pro Leu Ser Glu Glu Glu Glu Glu Asp Glu Gln  
           20                  25

<210> 899  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 899  
 Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser  
   1                  5                  10                  15  
 Pro Leu Ser Glu Glu Glu Glu Glu Asp Glu Gln  
           20                  25

<210> 900  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 900  
 Lys Glu Pro Met Leu Lys Glu Ser Phe Glu Gly Met Lys Met Arg Ser  
   1                  5                  10                  15  
 Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys Ala Gln Glu  
           20                  25                  30

Asp Asp Leu  
           35

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<210> 901  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 901  
 Lys Trp Val Glu Glu Asn Val Pro Ser Ser Val Thr Asp Val Ala Leu  
   1                  5                  10                  15  
 Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg Met Ile Thr His Phe Glu  
                   20                  25                  30  
 Arg Ser Lys Met Glu  
                   35

<210> 902  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 902  
 Asp Pro Arg Val Arg Leu Asn Ser Leu Thr Cys Lys His Ile Phe Ile  
   1                  5                  10                  15  
 Ser Leu Thr Gln  
                   20

<210> 903  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 903  
 Asn Ala Phe Gly Arg His Ser Thr Ala Val Lys  
   1                  5                  10

<210> 904  
 <211> 283  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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Glu Ser Cys Leu Leu Cys Gly Ile Ser Glu Tyr Pro Ile Gln Arg Xaa  
1 5 10 15

Ile Cys Pro Gly Cys Phe Asp Pro Cys Arg Xaa Ala Phe Ser Ser Glu  
20 25 30

Thr Leu Thr Gly Ser Asn Pro Gly His His Ser Gln Ser Gly Ile Trp  
35 40 45

His Arg Gln Ala Thr Pro Gly Val Thr Leu His Lys Val Val Val Ala  
50 55 60

Xaa Ala Leu Tyr Leu Leu Phe Ser Gly Met Glu Gly Val Leu Arg Val  
65 70 75 80

Thr Gly Ala Gln Thr Asp Leu Ala Ser Leu Ala Phe Ile Pro Leu Ala  
85 90 95

Phe Leu Asp Thr Ala Leu Cys Trp Trp Ile Phe Ile Ser Leu Thr Gln  
100 105 110

Thr Met Lys Leu Leu Lys Leu Arg Arg Asn Ile Val Lys Leu Ser Leu  
115 120 125

Tyr Arg His Phe Thr Asn Thr Leu Ile Leu Ala Val Ala Ala Ser Ile  
130 135 140

Val Phe Ile Ile Trp Thr Thr Met Lys Phe Arg Ile Val Thr Cys Gln  
145 150 155 160

Ser Asp Trp Arg Glu Leu Trp Val Asp Asp Ala Ile Trp Arg Leu Leu  
165 170 175

Phe Ser Met Ile Leu Phe Val Ile Met Val Leu Trp Arg Pro Ser Ala  
180 185 190

Asn Asn Gln Arg Phe Ala Phe Ser Pro Leu Ser Glu Glu Glu Glu Glu  
195 200 205

Asp Glu Gln Lys Glu Pro Met Leu Lys Glu Ser Phe Glu Gly Met Lys  
210 215 220

Met Arg Ser Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys  
225 230 235 240

Ala Gln Glu Asp Asp Leu Lys Trp Val Glu Glu Asn Val Pro Ser Ser  
245 250 255

Val Thr Asp Val Ala Leu Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg  
260 265 270

Met Ile Thr His Phe Glu Arg Ser Lys Met Glu  
275 280

<210> 905

<211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 905  
 Tyr Glu Pro Met Asp Phe Xaa Met Ala Leu Ile Tyr Asp  
           1                  5                  10

<210> 906  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 906  
 Ile Arg His Glu Leu Thr Val Leu Arg Asp Thr Arg Pro Ala Cys Ala  
           1                  5                  10                  15

<210> 907  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 907  
 Met Asp Phe Xaa Met Ala Leu Ile Tyr Asp  
           1                  5                  10

<210> 908  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 908  
 Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala Leu Ser Asn Leu Glu  
           1                  5                  10                  15  
 Ser Ile Pro Gly Gly Tyr Asn Ala  
                   20

<210> 909  
 <211> 25  
 <212> PRT

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<400> 909

Gln Glu Gln Phe Gly Gly Asn Pro Phe  
20 25

<211> 32

&lt;212&gt; PRT

<213> Homo sapiens

<400> 910

Arg Thr Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala Pro Gln Thr  
20 25 30

&lt;210&gt; 911

<211> 71

&lt;212&gt; PRT

<213> Homo sapiens

<400> 911

Thr Thr Gly Ser Thr Ala Ser Gly Thr Ser Gly Gln Ser Thr Thr Ala  
20 25 30

Pro Asn Leu Val Pro Gly Val Gly Ala Ser Met Phe Asn Thr Pro Gly  
35 40 45

Met Gln Ser Leu Leu Gln Gln Ile Thr Glu Asn Pro Gln Leu Met Gln  
50 55 60

Asn Met Leu Ser Ala Pro Tyr  
65 70

&lt;210&gt; 912

<211> 45

<212> PRT

<213> Homo sapiens

<400> 912

Met Arg Ser Met Met Gln Ser Leu Ser Gln Asn Pro Asp Leu Ala Ala  
1 5 10 15

Gln Met Met Leu Asn Asn Pro Leu Phe Ala Gly Asn Pro Gln Leu Gln

20 25 30  
 Glu Gln Met Arg Gln Gln Leu Pro Thr Phe Leu Gln Gln  
 35 40 45  
  
 <210> 913  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 913  
 Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn Pro Arg Ala Met  
 1 5 10 15  
 Gln Ala Leu Leu Gln Ile Gln Gln Gly Leu Gln Thr Leu Ala Thr Glu  
 20 25 30  
 Ala Pro Gly Leu Ile Pro Gly Phe Thr Pro Gly Leu Gly Ala Leu Gly  
 35 40 45  
 Ser Thr Gly Gly Ser Ser Gly Thr Asn Gly Ser Asn Ala Thr Pro Ser  
 50 55 60  
 Glu Asn Thr Ser Pro Thr Ala Gly Thr  
 65 70  
  
 <210> 914  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 914  
 Thr Glu Pro Gly His Gln Gln Phe Ile Gln Gln Met Leu Gln Ala Leu  
 1 5 10 15  
 Ala Gly Val Asn Pro Gln Leu Gln Asn Pro Glu Val Arg Phe Gln Gln  
 20 25 30  
 Gln Leu Glu Gln Leu Ser Ala Met Gly Phe Leu Asn Arg Glu Ala Asn  
 35 40 45  
 Leu Gln Ala Leu Ile Ala Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu  
 50 55 60  
 Arg Leu Leu Gly Ser Gln Pro Ser  
 65 70  
  
 <210> 915  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 915  
 Arg Asn Pro Ala Met Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala  
 1 5 10 15

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Leu Ser Asn Leu Glu Ser Ile Pro Gly Gly Tyr Asn Ala Leu Arg Arg  
                   20                  25                  30

Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala  
                   35                  40                  45

<210> 916  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 916  
 Gly Asn Pro Phe Ala Ser Leu Val Ser Asn Thr Ser Ser  
       1                          5                          10

<210> 917  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 917  
 Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala  
       1                          5                          10

<210> 918  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 918  
 Gly Lys Ile Leu Lys Asp Gln Asp Thr Leu Ser Gln His Gly Ile His  
       1                          5                          10                          15

Asp

<210> 919  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 919  
 Gly Leu Thr Val His Leu Val Ile Lys Thr Gln Asn Arg Pro  
       1                          5                          10

<210> 920  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 920  
 Ser Glu Leu Gln Ser Gln Met Gln Arg Gln Leu Leu Ser Asn Pro Glu

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<210> 921
<211> 14
<212> PRT
<213> Homo sapiens
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<210> 922
<211> 18
<212> PRT
<213> Homo sapiens
```

Asn Pro

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<210> 923
<211> 27
<212> PRT
<213> Homo sapiens
```

Ala Gly Ile His Cys Ala Lys Arg Ile Val Ser  
20 25

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<210> 924
<211> 23
<212> PRT
<213> Homo sapiens
```

Phe Val Glu Ser Lys Phe Asn  
20

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<210> 925
<211> 22
<212> PRT
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<212> PRT  
 <213> Homo sapiens

<400> 930  
 Asn Thr Arg Ser Ser Ala Gln Asp Met Pro Cys Gln Ile Cys Tyr Leu  
 1 5 10 15  
 Asn Tyr Pro Asn Ser Tyr Phe  
 20

<210> 931  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 931  
 Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp  
 1 5 10 15  
 Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val  
 20 25 30  
 Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His  
 35 40 45  
 Val Val Lys Val Gln Tyr Pro Asp Ala Lys Pro Val  
 50 55 60

<210> 932  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 932  
 Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp  
 1 5 10 15  
 Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val  
 20 25 30  
 Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His  
 35 40 45  
 Val Val Lys Val  
 50

<210> 933  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 933  
 Gly Cys Asn His Met Val Cys Arg Asn Gln Asn Cys Lys Ala Glu Phe  
 1 5 10 15

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<400> 936
Thr Gly Leu Glu Cys Gly His Lys Phe Cys Met Gln Cys Trp Ser Glu
  1             5             10             15
Tyr Leu Thr Thr Lys Ile Met Glu Glu Gly Met Gly Gln Thr Ile Ser

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20 25 30  
 Cys Pro Ala His Gly  
 35

<210> 937  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 937  
 Met Trp Gly Tyr Leu Phe Val Asp Ala Ala Trp Asn Phe Leu Gly Cys  
 1 5 10 15

Leu Ile Cys Gly Trp  
 20

<210> 938  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 938  
 Met His Phe Ile Ser Ser Gly Asn Val Ser Ala Ile Arg Ser Ser Ile  
 1 5 10 15

Leu Leu Leu Arg Xaa Ser Leu Ser Tyr Leu Gly Asn Cys Leu Arg Val  
 20 25 30

Ser Ala Ile Phe Val Tyr Phe Leu Leu Phe Leu Leu Leu Ser  
 35 40 45

<210> 939  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 939  
 Met Asp Gln Ala Leu Arg Gly Ser Pro Ser Glu Gly Phe Ser Thr Asp  
 1 5 10 15

Pro Ser Pro Pro Gln Val Gly Arg Gln Ile Pro Ser Phe Pro Pro Trp  
 20 25 30

Arg Arg Leu Val Leu Pro Lys Ala Ser Gly Cys Phe Leu Glu Arg Glu  
 35 40 45

Trp Trp Leu Cys Val Phe Lys Leu Arg Thr Arg Pro Gly Ala Glu Ala  
 50 55 60

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<210> 940
<211> 131
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 941
<211> 76
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941
Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser

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<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids
```

&lt;400&gt; 944

Met Leu Pro Ala Leu Ala Ser Cys Cys His Phe Ser Pro Pro Glu Gln  
 1 5 10 15

Ala Ala Arg Leu Lys Lys Leu Gln Glu Gln Lys Gln Gln Lys Val  
 20 25 30

Glu Phe Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp  
 35 40 45

Ser Gly Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg  
 50 55 60

Ser Ile Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser  
 65 70 75 80

Phe Gly Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu  
 85 90 95

Phe Ala Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu  
 100 105 110

Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Asn Xaa Lys Glu Leu Ala  
 115 120 125

Gln Arg Gln Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser  
 130 135 140

Pro Ala Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly  
 145 150 155 160

Ala Ala Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly  
 165 170 175

Cys Xaa Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala  
 180 185 190

Met Asn Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu  
 195 200 205

&lt;210&gt; 945

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 945

Leu Leu Cys Pro Val Leu Asn Ser Gly Xaa Ser Trp Asn Phe Pro His  
 1 5 10 15

Pro Ser Gln Pro Glu Tyr Ser Phe His Gly Phe His Ser Thr Arg Leu  
 20 25 30

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Trp Ile

<210> 946  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 946  
 Pro Ser Thr Pro Trp Phe Leu Phe Leu Leu Gly Leu Thr Cys Pro Phe  
           1                  5                  10                  15  
 Ser Thr Ser His Pro Arg Trp Asp Ser Ile Pro Pro  
                   20                  25

<210> 947  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<400> 947  
 Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu  
           1                  5                  10                  15  
 Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu  
                   20                  25                  30  
 Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys  
           35                  40                  45  
 Ser Ser Leu Arg Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser  
           50                  55                  60  
 Gly Ser Lys Pro Ala Ala Arg Leu Thr Trp Arg Lys Gly Asp Gln Glu  
           65                  70                  75                  80  
 Leu His Gly Glu Pro Thr Arg Ile Gln Glu Asp Pro Asn Gly Lys Thr  
                   85                  90                  95  
 Phe Thr Val Ser Ser Ser Val Thr Phe Gln Val Thr Arg Glu Asp Asp  
           100                  105                  110  
 Gly Ala Ser Ile Val Cys Ser Val Asn His Glu Ser Leu Lys Gly Ala  
           115                  120                  125  
 Asp Arg Ser Thr Ser Gln Arg Ile Glu Val Leu Tyr Thr Pro Thr Ala  
           130                  135                  140  
 Met Ile Arg Pro Asp Pro Pro His Pro Arg Glu Gly Gln Lys Leu Leu  
           145                  150                  155                  160  
 Leu His Cys Glu Gly Arg Gly Asn Pro Val Pro Gln Gln Tyr Leu Trp  
           165                  170                  175  
 Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser Ala

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<210> 948
<211> 64
<212> PRT
<213> Homo sapiens
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<210> 949
<211> 65
<212> PRT
<213> Homo sapiens
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Leu  
65

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<210> 950
<211> 58
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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 950

His Glu Ser Leu Lys Gly Ala Asp Arg Ser Thr Ser Gln Arg Ile Glu  
 1 5 10 15

Val Leu Tyr Thr Pro Thr Ala Met Ile Arg Pro Asp Pro Pro His Pro  
 20 25 30

Arg Glu Gly Gln Lys Leu Leu Leu His Cys Glu Gly Arg Gly Asn Pro  
 35 40 45

Val Pro Gln Gln Tyr Leu Trp Glu Lys Glu  
 50 55

&lt;210&gt; 951

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 951

Trp Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser  
 1 5 10 15

Ala Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly  
 20 25 30

Cys Thr Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu  
 35 40 45

Asn Val Asn Asp  
 50

&lt;210&gt; 952

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 952

Pro Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His Ala Ile Ile Gly  
 1 5 10 15

Gly Ile Val Ala Phe Ile Val Phe Leu Leu Leu Ile Met Leu Ile Phe  
 20 25 30

Leu Gly His Tyr  
 35

&lt;210&gt; 953

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 953

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Leu Ile Arg His Lys Gly Thr Tyr Leu Thr His Glu Ala Lys Gly Ser  
 1 5 10 15  
 Asp Asp Ala Pro Asp Ala Asp Thr Ala Ile Ile Asn Ala Glu Gly Gly  
 20 25 30  
 Gln Ser Gly Gly Asp Asp Lys Lys Glu Tyr Phe Ile  
 35 40

<210> 954  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 954  
 Val Pro Glu Leu Pro Asp Arg Val His Gln Leu His Gln Ala Val Gln  
 1 5 10 15  
 Gly Cys Ala Leu Gly Arg Pro Gly Phe Pro Gly Gly Pro Thr His Ser  
 20 25 30  
 Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly Asp Tyr Asn Arg  
 35 40 45  
 Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro Arg Gly Thr Gly  
 50 55 60  
 Arg Arg Gly Gln Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg  
 65 70 75 80  
 Ala Cys Pro Ser Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro  
 85 90 95  
 Cys Pro Ser Pro Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser  
 100 105 110  
 Trp Cys Gly Leu Pro Gly Tyr Thr Ser Ser Ser  
 115 120

<210> 955  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 955  
 Val His Gln Leu His Gln Ala Val Gln Gly Cys Ala Leu Gly Arg Pro  
 1 5 10 15  
 Gly Phe Pro Gly Gly Pro  
 20

<210> 956  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 956

Pro Thr His Ser Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly  
 1 5 10 15

Asp Tyr Asn Arg Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro  
 20 25 30

Arg Gly Thr Gly Arg Arg Gly Gln Leu His  
 35 40

&lt;210&gt; 957

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 957

Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg Ala Cys Pro Ser  
 1 5 10 15

Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro Cys Pro Ser Pro  
 20 25 30

Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser Trp Cys Gly Leu  
 35 40 45

Pro Gly Tyr Thr Ser Ser Ser  
 50 55

&lt;210&gt; 958

&lt;211&gt; 276

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 958

Ser Leu Arg Arg Pro Arg Ser Ala Ala Xaa Gln Thr Leu Thr Thr Phe  
 1 5 10 15

Leu Ser Ser Val Ser Ser Ala Ser Ser Ser Ala Leu Pro Gly Ser Arg  
 20 25 30

Glu Pro Cys Asp Pro Arg Ala Pro Pro Pro Pro Arg Ser Gly Ser Ala  
 35 40 45

Ala Ser Cys Cys Ser Cys Cys Cys Ser Cys Pro Arg Arg Arg Ala Pro  
 50 55 60

Leu Arg Ser Pro Arg Gly Ser Lys Arg Arg Ile Arg Gln Arg Glu Val  
 65 70 75 80

Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro

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<210> 959
<211> 61
<212> PRT
<213> Homo sapiens
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<400> 959  
Ser Leu Arg Arg Pro Arg Ser Ala Ala Xaa Gln Thr Leu Thr Thr Phe  
1 5 10 15  
Leu Ser Ser Val Ser Ser Ala Ser Ser Ser Ala Leu Pro Gly Ser Arg  
20 25 30  
Glu Pro Cys Asp Pro Arg Ala Pro Pro Pro Pro Arg Ser Gly Ser Ala  
35 40 45

Ala Ser Cys Cys Ser Cys Cys Cys Ser Cys Pro Arg Arg  
 50 55 60

<210> 960  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 960  
 Arg Ala Pro Leu Arg Ser Pro Arg Gly Ser Lys Arg Arg Ile Arg Gln  
 1 5 10 15

Arg Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala  
 20 25 30

Gly Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly  
 35 40 45

Thr Pro Gly Ile  
 50

<210> 961  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 961  
 Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu  
 1 5 10 15

Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln  
 20 25 30

Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala  
 35 40 45

Glu Cys Thr Phe  
 50

<210> 962  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 962  
 Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly  
 1 5 10 15

Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe  
 20 25 30

Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile  
 35 40 45

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Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile  
 50 55 60

His Arg  
 65

<210> 963  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 963  
 Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu  
 1 5 10 15

Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly  
 20 25 30

Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu  
 35 40 45

Leu Pro Lys  
 50

<210> 964  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 964  
 Thr Lys Lys Glu Asn Cys Arg Pro Ala Ser Leu Met Asn Ile Asp Thr  
 1 5 10 15

Lys Ile Leu Asn Lys Ile Leu Met Asn Gln  
 20 25

<210> 965  
 <211> 214  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<210> 966  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 966  
 Met Cys Asn Leu Pro Ile Lys Val Val Cys Arg Ala Asn Ala Glu Tyr  
     1                    5                    10                    15  
 Met Ser Pro Ser Gly Lys Val Pro Xaa Xaa His Val Gly Asn Gln Val  
             20                    25                    30  
 Val Ser Glu Leu Gly Pro Ile Val Gln Phe Val Lys  
             35                    40

<210> 967  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 967  
 Phe Val Lys Ala Lys Gly His Ser Leu Ser Asp Gly Leu Glu Glu Val  
     1                    5                    10                    15  
 Gln Lys Ala Glu Met Lys Ala Tyr Met Glu Leu Val Asn Asn Met Leu  
             20                    25                    30  
 Leu Thr Ala Glu Leu Tyr Leu Gln Trp Cys Asp Glu  
             35                    40

<210> 968  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 971  
 Met Xaa Xaa Xaa Asn Ser His Ile Thr Ile Phe Thr Leu Asn Val Asn  
   1                  5                  10                  15  
 Gly Leu Asn Ala Pro Asn Glu Arg His Arg Leu Ala Asn Trp Ile Gln  
                   20                  25                  30  
 Ser Gln Asp Gln Val Cys Cys Ile Gln Glu Thr His Leu Thr Gly Arg  
           35                  40                  45  
 Asp Thr His Arg Leu Lys Ile Lys Gly Trp Arg Lys Ile Tyr Gln Ala  
       50                  55                  60  
 Asn Gly Lys Gln Lys Lys  
   65                  70

<210> 972  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 972  
 Phe Thr Leu Asn Val Asn Gly Leu Asn Ala Pro Asn Glu Arg His Arg  
   1                  5                  10                  15  
 Leu Ala Asn Trp Ile Gln Ser Gln Asp Gln Val Cys  
       20                  25

<210> 973  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 973  
 Thr His Leu Thr Gly Arg Asp Thr His Arg Leu Lys Ile Lys Gly Trp  
   1                  5                  10                  15

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 977

Lys Val Ile His Ala His Cys Ser Lys Leu Arg Lys Cys Xaa Asn Ala  
1 5 10 15

Gln Ile Ser Val Phe Cys Thr Thr Leu Thr Ala Ser Tyr Pro Thr  
20 25 30

<210> 978

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu  
1 5 10 15

Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Xaa Ser Gln Ala  
20 25 30

Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val Arg Leu  
35 40 45

Leu Trp Asp Val Leu Thr Pro Asp Pro Asn  
50 55

<210> 979

<211> 54

<212> PRT

<213> Homo sapiens

<400> 979

Gln Arg Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu  
1 5 10 15

Gly Lys Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser  
20 25 30

Ala Phe Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His  
35 40 45

Arg Arg Ala Gln Met Pro  
50

<210> 980

<211> 23

<212> PRT

<213> Homo sapiens

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Glu Asp Asp Gly Phe Asn Arg Ser Ile His Glu Val Ile Leu Lys Asn  
 1 5 10 15  
 Ile Thr Trp Tyr Ser Glu Arg Val Leu Thr Glu Ile Ser Leu Gly Ser  
 20 25 30  
 Leu Leu Ile Leu Val Val  
 35

<210> 983  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 983  
 Arg Thr Ile Gln Tyr Asn Met Thr Arg Thr Arg Asp Lys Tyr Leu His  
 1 5 10 15  
 Thr Asn Cys Leu Ala Ala Leu Ala Asn Met Ser Ala Gln Phe Arg Ser  
 20 25 30  
 Leu His Gln Tyr Ala Ala Gln Arg Ile Ile Ser Leu Phe Ser Leu Leu  
 35 40 45  
 Ser Lys Lys His Asn  
 50

<210> 984  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 984  
 Ser Cys Leu Thr Asn Ser Leu His His Asn Pro Asn Leu Val Tyr Ala  
 1 5 10 15  
 Leu Leu Tyr Lys Arg Asp Leu Phe Glu Gln Phe Arg Thr His Pro Ser  
 20 25 30  
 Phe Gln Asp Ile Met Gln Asn Ile Asp Leu Val Ile Ser Phe Phe Ser  
 35 40 45  
 Ser Arg Leu Leu Gln Ala Gly Ser  
 50 55

<210> 985  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 985  
 Lys Lys His Asn Lys Val Leu Glu Gln Ala Thr Gln Ser Leu Arg Gly  
 1 5 10 15  
 Ser Leu Ser Ser Asn Asp Val Pro Leu Pro Asp Tyr Ala Gln Asp

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30

<400> 986  
Thr Ile Ser Asn Ser Ser Phe Ile Ser Gly Tyr Asn Ala Lys Tyr  
1 5 10 15

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<400> 987
Leu Lys Val Ala Ala Ser Trp Glu Leu Ser Cys Gln Trp Asn Gly Ser
  1          5          10          15
Trp Lys Ser Leu Ser Lys Ala Ser Leu Arg Cys Pro Lys Thr Asp
          20          25          30

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<210> 988
<211> 125
<212> PRT
<213> Homo sapiens

<400> 988
Met Ala Asp Ile Gln Thr Glu Arg Ala Tyr Gln Lys Gln Pro Thr Ile
  1             5             10             15
Phe Gln Asn Lys Lys Arg Val Leu Leu Gly Glu Thr Gly Lys Glu Lys
          20             25             30
Leu Pro Arg Val Thr Asn Lys Asn Ile Gly Leu Gly Phe Lys Asp Thr
          35             40             45
Pro Arg Arg Leu Leu Arg Gly Thr Tyr Ile Asp Lys Lys Cys Pro Phe
          50             55             60
Thr Gly Asn Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val Thr
  65             70             75             80
Gln Asp Glu Asp Ala Glu Asp His Cys His Pro Pro Arg Leu Ser Ala
          85             90             95
Leu His Pro Gln Val Gln Pro Leu Arg Glu Ala Pro Gln Glu His Val
          100            105            110
Cys Thr Pro Val Pro Leu Leu Gln Gly Arg Pro Asp Arg
          115            120            125

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<210> 989

<211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 989  
 Met Lys Met Gln Arg Thr Ile Val Ile Arg Arg Asp Tyr Leu His Tyr  
     1                    5                    10                    15  
 Ile Arg Lys Tyr Asn Arg Phe Glu Lys Arg His Lys Asn Met Ser Val  
           20                    25                    30  
 His Leu Ser Pro Cys Phe Arg Asp Val Gln Ile Gly Asp Ile Val Thr  
           35                    40                    45  
 Val Gly Glu Cys Arg Pro Leu Ser Lys Thr Val Arg Phe Asn Val Leu  
           50                    55                    60  
 Lys Val Thr Lys Ala Ala Gly Thr Lys Lys Gln Phe Gln Lys Phe  
           65                    70                    75

<210> 990  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 990  
 Met Ala Asp Ile Gln Thr Glu Arg Ala Tyr Gln Lys Gln Pro Thr Ile  
     1                    5                    10                    15  
 Phe Gln Asn Lys Lys Arg Val Leu Leu Gly Glu Thr Gly Lys  
           20                    25                    30

<210> 991  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 991  
 Lys Leu Pro Arg Val Thr Asn Lys Asn Ile Gly Leu Gly Phe Lys Asp  
     1                    5                    10                    15  
 Thr Pro Arg Arg Leu Leu Arg Gly Thr Tyr Ile Asp Lys Lys Cys Pro  
           20                    25                    30  
 Phe Thr Gly Asn Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val  
           35                    40                    45  
 Thr Gln Asp Glu Asp Ala Glu Asp His Cys  
           50                    55

<210> 992  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

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Gln

&lt;210&gt; 996

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 996

Ser Arg Gly Thr Gly Val Gln Thr Cys Ser Cys Gly Ala Ser Arg Ser  
 1 5 10 15

Gly Cys Thr Cys Gly Cys Ser Ala Asp Ser Leu Gly Gly  
 20 25

&lt;210&gt; 997

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 997

Gln Trp Ser Ser Ala Ser Ser Ser Trp Val Thr Thr Pro Glu Arg Ile  
 1 5 10 15

Arg Pro Arg Met Asp Thr Leu Pro Val Lys Gly His Phe Leu Ser Met  
 20 25 30

&lt;210&gt; 998

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 998

Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
 1 5 10 15

Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
 20 25 30

Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln Arg Ala Lys  
 35 40 45

Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly  
 50 55 60

&lt;210&gt; 999

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

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<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 999  
 Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys His  
 1 5 10 15  
 Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg Asp  
 20 25 30  
 Met Val Ala Asp Phe Gln Asn Arg Asn Asp Ile Phe Val Phe Leu Leu  
 35 40 45  
 Ser Thr Arg Ala Gly Gly Leu Gly Ile Asn Leu Thr Ala Xaa Asp Thr  
 50 55 60  
 Val His Phe  
 65  
  
 <210> 1000  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1000  
 Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
 1 5 10 15  
 Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
 20 25 30  
  
  
 <210> 1001  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1001  
 Val Tyr Arg Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln  
 1 5 10 15  
 Arg Ala Lys Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly  
 20 25 30  
  
  
 <210> 1002  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>

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<221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1002  
 Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys His  
 1 5 10 15  
 Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg Asp  
 20 25 30  
 Met

<210> 1003  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1003  
 Arg Arg Asp Met Val Ala Asp Phe Gln Asn Arg Asn Asp Ile Phe Val  
 1 5 10 15  
 Phe Leu Leu Ser Thr Arg Ala Gly Gly Leu Gly Ile Asn Leu Thr Ala  
 20 25 30  
 Xaa Asp Thr Val His Phe  
 35

<210> 1004  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1004  
 Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
 1 5 10 15  
 Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
 20 25 30  
 Leu Ile Cys Lys Gly  
 35

<210> 1005  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1005

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Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met  
1 5 10 15

Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg  
20 25 30

Leu Ile Cys Lys Gly  
35

<210> 1006

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1006

Arg Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln Arg Ala  
1 5 10 15

Lys Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly  
20 25

<210> 1007

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1007

Gly Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys  
1 5 10 15

His Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg  
20 25 30

Asp Met Val Ala Asp Phe Gln Asn Arg Asn Asp Ile Phe Val Phe Leu  
35 40 45

Leu Ser Thr Arg Ala Gly Gly Leu Gly Ile Asn Leu Thr Ala Xaa Asp  
50 55 60

Thr Val His Phe Leu  
65

<210> 1008

<211> 364

<212> PRT

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Leu Arg Leu Cys Trp Asn Lys Gln Asp Pro Asn Tyr Leu Ala Thr Met  
225 230 235 240



Ala	Met	Asp	Gly	Met	Glu	Val	Val	Ile	Leu	Asp	Val	Arg	Val	Pro	Ala			
				245					250					255				
His	Leu	Xaa	Pro	Gly	Thr	Thr	Ile	Glu	His	Val	Ser	Met	Ala	Leu	Leu			
				260					265					270				
Gly	Pro	His	Ile	His	Pro	Ala	Thr	Ser	Ala	Leu	Gln	Arg	Met	Thr	Thr			
				275					280					285				
Arg	Leu	Ser	Ser	Gly	Thr	Ser	Ser	Lys	Cys	Pro	Glu	Pro	Leu	Arg	Thr			
				290					295					300				
Leu	Ser	Trp	Pro	Thr	Gln	Leu	Xaa	Gly	Glu	Ile	Asn	Asn	Val	Gln	Trp			
				305					310					315				
Ala	Ser	Thr	Gln	Pro	Glu	Leu	Ser	Pro	Ser	Ala	Thr	Thr	Thr	Ala	Trp			
				325					330					335				
Arg	Tyr	Ser	Glu	Cys	Ser	Val	Gly	Gly	Ala	Val	Pro	Thr	Arg	Gln	Gly			
				340					345					350				
Leu	Leu	Tyr	Phe	Leu	Pro	Leu	Pro	His	Pro	Gln	Ser							
				355					360									
<210> 1009																		
<211> 136																		
<212> PRT																		
<213> Homo sapiens																		
<400> 1009																		
Met	Ser	Leu	His	Gly	Lys	Arg	Lys	Glu	Ile	Tyr	Lys	Tyr	Glu	Ala	Pro			
				1					5					10				
Trp	Thr	Val	Tyr	Ala	Met	Asn	Trp	Ser	Val	Arg	Pro	Asp	Lys	Arg	Phe			
				20					25					30				
Arg	Leu	Ala	Leu	Gly	Ser	Phe	Val	Glu	Glu	Tyr	Asn	Asn	Lys	Val	Gln			
				35					40					45				
Leu	Val	Gly	Leu	Asp	Glu	Glu	Ser	Ser	Glu	Phe	Ile	Cys	Arg	Asn	Thr			
				50					55					60				
Phe	Asp	His	Pro	Tyr	Pro	Thr	Thr	Lys	Leu	Met	Trp	Ile	Pro	Asp	Thr			
				65					70					75				
Lys	Gly	Val	Tyr	Pro	Asp	Leu	Leu	Ala	Thr	Ser	Gly	Asp	Tyr	Leu	Arg			
				85					90					95				
Val	Trp	Arg	Val	Gly	Glu	Thr	Glu	Thr	Arg	Leu	Glu	Cys	Leu	Leu	Asn			
				100					105					110				
Asn	Asn	Lys	Asn	Ser	Asp	Phe	Cys	Ala	Pro	Leu	Thr	Ser	Phe	Asp	Trp			
				115					120					125				
Asn	Glu	Val	Asp	Pro	Tyr	Leu	Leu											
				130					135									

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<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<210> 1011
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1011
Val Gly Ala Asp Gly Ser Val Arg Met Phe Asp Leu Arg His Leu Glu
  1             5             10             15

```

His Ser Thr Ile Ile Tyr Glu Asp Pro Gln His His Pro Leu Leu Arg  
                   20                                  25                                  30  
 Leu Cys Trp Asn Lys Gln Asp Pro Asn Tyr Leu Ala Thr Met Ala Met  
                   35                                  40                                  45  
 Asp Gly Met Glu Val Val Ile Leu Asp Val Arg Val Pro Ala His Leu  
                   50                                  55                                  60  
 Xaa Pro Gly Thr Thr Ile Glu His Val Ser Met Ala Leu Leu Gly Pro  
                   65                                  70                                  75                                  80  
 His Ile His Pro Ala Thr Ser Ala Leu Gln Arg Met Thr Thr Arg Leu  
                                   85                                  90                                  95  
 Ser Ser Gly Thr Ser Ser Lys Cys Pro Glu Pro Leu Arg Thr Leu Ser  
                                   100                                  105                                  110  
 Trp Pro Thr Gln Leu Xaa Gly Glu Ile Asn Asn Val Gln Trp Ala Ser  
                   115                                  120                                  125  
 Thr Gln Pro Glu Leu Ser Pro Ser Ala Thr Thr Thr Ala Trp Arg Tyr  
                   130                                  135                                  140  
 Ser Glu Cys Ser Val Gly Gly Ala Val Pro Thr Arg Gln Gly Leu Leu  
                   145                                  150                                  155                                  160  
 Tyr Phe Leu Pro Leu Pro His Pro Gln Ser  
                                   165                                  170

<210> 1012

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1012

Leu Tyr Ala Thr Ala Thr Val Ile Ser Ser Pro Ser Thr Glu Xaa Leu  
                   1                                  5                                  10                                  15

Ser Gln Asp Gln Gly Asp Arg Ala Ser Leu Asp Ala Ala Asp Ser Gly  
                   20                                  25                                  30

Arg Gly Ser Trp Thr Ser Cys Ser Ser Gly Ser His Asp Asn Ile Gln  
                   35                                  40                                  45

Thr Ile Gln His Gln Arg Ser Trp Glu Thr Leu Pro Phe Gly His Thr

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<210> 1013
<211> 42
<212> PRT
<213> Homo sapiens
```

<400> 1013  
His Met Asp Gln Ile Met Phe Ser Asp His Ser Thr Lys Tyr Asn Arg  
1 5 10 15  
Gln Asn Gln Ser Arg Glu Ser Leu Glu Gln Ala Gln Ser Arg Ala Ser  
20 25 30  
Trp Ala Ser Ser Thr Gly Tyr Trp Gly Glu

40

```

<400> 1014
Ser Val Thr Thr Glu Glu Thr Lys Pro Val Pro Met Pro Ala His Ile
  1                               10                               15

Ala Val Ala Ser Ser Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly
  20                               25                               30

Arg Tyr Arg Glu Pro Pro Pro Thr Pro Pro Gly Tyr Ile Gly Ile Pro
  35                               40                               45

Ile Thr Asp
  50

```

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<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 1015
Val Ala Leu Gln Arg Ser Arg Met Val Ala Arg Ser Ser Asp Thr Ala
  1                               10                               15
Gly Pro Ser Ser Val Gln Gln Pro His Gly His Pro Thr Ser Ser Arg
      20                               25                               30
Pro Val Asn Lys Pro Gln Trp His Lys Xaa Asn Glu Ser Asp Pro Arg
      35                               40                               45
Leu Ala Pro Tyr Gln Ser Gln Gly Phe
  50                               55

```

<400> 1016  
Cys Leu Leu Phe Val Phe Val Ser Leu Gly Met Arg Cys Leu Phe Trp  
1 5 10 15  
Thr Ile Val Tyr Asn Val Leu Tyr Leu Lys His Lys Cys Asn Thr Val  
20 25 30

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<210> 1017
<211> 67
<212> PRT
<213> Homo sapiens
```

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<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1017  
Ala Cys Ser Lys Leu Ile Pro Ala Phe Glu Met Val Met Arg Ala Lys  
1 5 10 15

Asp Asn Val Tyr His Leu Asp Cys Phe Ala Cys Gln Leu Cys Asn Gln  
20 25 30

Arg Xaa Cys Val Gly Asp Lys Phe Phe Leu Lys Asn Asn Xaa Xaa Leu  
35 40 45

Cys Gln Thr Asp Tyr Glu Glu Gly Leu Met Lys Glu Gly Tyr Ala Pro  
50 55 60

Xaa Val Arg  
65

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<210> 1018
<211> 45
<212> PRT
<213> Homo sapiens
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<400> 1018  
Ser Ala Leu Ser Glu Pro Gly Ala Pro Asp Arg Arg Arg Pro Cys Pro  
1 5 10 15

Glu Ser Val Pro Arg Arg Pro Asp Asp Glu Gln Trp Pro Pro Pro Thr  
20 25 30

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<210> 1019
<211> 43
<212> PRT
<213> Homo sapiens
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<210> 1020
<211> 214
<212> PRT
<213> Homo sapiens
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<400> 1020																
Ala	His	Ala	Ser	Glu	Ser	Gly	Glu	Arg	Trp	Trp	Ala	Cys	Cys	Gly	Val	
1				5					10					15		
Arg	Phe	Gly	Leu	Arg	Ser	Ile	Glu	Ala	Ile	Gly	Arg	Ser	Cys	Cys	His	
			20					25					30			
Asp	Gly	Pro	Gly	Gly	Leu	Val	Ala	Asn	Arg	Gly	Arg	Arg	Phe	Lys	Trp	
		35					40					45				
Ala	Ile	Glu	Leu	Ser	Gly	Pro	Gly	Gly	Gly	Ser	Arg	Gly	Arg	Ser	Asp	
	50					55					60					
Arg	Gly	Ser	Gly	Gln	Gly	Asp	Ser	Leu	Tyr	Pro	Val	Gly	Tyr	Leu	Asp	
65					70					75					80	
Lys	Gln	Val	Pro	Asp	Thr	Ser	Val	Gln	Glu	Thr	Asp	Arg	Ile	Leu	Val	
				85					90					95		
Glu	Lys	Arg	Cys	Trp	Asp	Ile	Ala	Leu	Gly	Pro	Leu	Lys	Gln	Ile	Pro	
			100					105					110			
Met	Asn	Leu	Phe	Ile	Met	Tyr	Met	Ala	Gly	Asn	Thr	Ile	Ser	Ile	Phe	
		115					120					125				
Pro	Thr	Met	Met	Val	Cys	Met	Met	Ala	Trp	Arg	Pro	Ile	Gln	Ala	Leu	
	130					135					140					
Met	Ala	Ile	Ser	Ala	Thr	Phe	Lys	Met	Leu	Glu	Ser	Ser	Ser	Gln	Lys	
145					150					155					160	
Phe	Leu	Gln	Gly	Leu	Val	Tyr	Leu	Ile	Gly	Asn	Leu	Met	Gly	Leu	Ala	
				165					170					175		

Leu Ala Val Tyr Lys Cys Gln Ser Met Gly Leu Leu Pro Thr His Ala  
180 185 190

Ser Asp Trp Leu Ala Phe Ile Glu Pro Pro Glu Arg Met Glu Phe Ser  
195 200 205

Gly Gly Gly Leu Leu Leu  
210

<210> 1021

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1021

Ala Thr Phe Lys Met Leu Glu Ser Ser Ser Gln Lys Phe Leu Gln Gly  
1 5 10 15

Leu Val Tyr Leu Ile Gly Asn Leu Met Gly Leu Ala Leu Ala Val Tyr  
20 25 30

Lys Cys Gln Ser Met Gly Leu Leu Pro Thr His Ala Ser Asp  
35 40 45

<210> 1022

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1022

Pro Val Gly Tyr Leu Asp Lys Gln Val Pro Asp Thr Ser Val Gln Glu  
1 5 10 15

Thr Asp Arg Ile Leu Val Glu Lys Arg Cys Trp Asp Ile Ala Leu Gly  
20 25 30

Pro Leu Lys Gln Ile Pro Met Asn Leu Phe Ile  
35 40

<210> 1023

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1023

Pro Thr Thr Lys Leu Asp Ile Met Glu Lys Lys Lys His Ile Gln Ile  
1 5 10 15

Arg Phe Pro Ser Phe Tyr His Lys Leu Val Asp Ser Gly Arg Met Arg  
20 25 30

Ser Lys Arg Glu Thr Arg Arg Glu Asp Ser Asp Thr Lys His Asn Leu  
35 40 45

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<210> 1024  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1024  
 Phe Leu Trp Lys Ser Leu Leu Leu Arg Tyr Phe Lys Met Arg Gln His  
 1 5 10 15

<210> 1025  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1025  
 Tyr His Tyr Leu Leu Ser Ser Phe Leu Ser Tyr Ser Ser Ser Ser Gln  
 1 5 10 15

Asn Leu Pro Val Tyr Gly Arg Lys Met Gly Thr Leu Phe Glu Cys Val  
 20 25 30

Phe Phe Phe Pro  
 35

<210> 1026  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 1026  
 Thr Glu His Ile Ile Ala Val Met Ile Thr Glu Leu Arg Gly Lys Asp  
 1 5 10 15

Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln Met Thr Ile Ala  
 20 25 30

Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg Gly Ser Leu Val  
 35 40 45

Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile Ser Ser Ala Trp  
 50 55 60

Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr Asn Ala Arg Asp  
 65 70 75 80

Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys Ala Ile Ser Lys  
 85 90 95

Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu Thr Asp Pro Asp

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100 105 110  
 Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys Gln Asn Asp Val  
 115 120 125  
 Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys Ser Cys Val Asp  
 130 135 140  
 Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys Lys Leu Asn Ile  
 145 150 155 160  
 Leu Lys Ala Leu Gly Ile Val  
 165  
  
 <210> 1027  
 <211> 276  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1027  
 Met Thr His Pro Gly Thr Glu His Ile Ile Ala Val Met Ile Thr Glu  
 1 5 10 15  
 Leu Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val  
 20 25 30  
 Gln Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser  
 35 40 45  
 Arg Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile  
 50 55 60  
 Ile Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr  
 65 70 75 80  
 Thr Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys  
 85 90 95  
 Lys Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys  
 100 105 110  
 Glu Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr  
 115 120 125  
 Lys Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His  
 130 135 140  
 Lys Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met  
 145 150 155 160  
 Cys Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro  
 165 170 175  
 Cys Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln  
 180 185 190  
 Ala Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser

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195                      200                      205

Leu Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln  
 210                      215                      220

Asp Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr  
 225                      230                      235                      240

Lys Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr  
                     245                      250                      255

Leu Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu  
                     260                      265                      270

Val Glu Trp Phe  
                     275

<210> 1028  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1028  
 Thr Glu His Ile Ile Ala Val Met Ile Thr Glu Leu Arg Gly Lys Asp  
   1                      5                      10                      15

Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln Met Thr Ile Ala  
                     20                      25                      30

Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg Gly Ser Leu Val  
                     35                      40                      45

Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile Ser Ser Ala Trp  
                     50                      55                      60

Leu Ile Phe Tyr Phe  
                     65

<210> 1029  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1029  
 Ser Ile Ser Phe Ile Val Leu Met Ile Ile Ser Ser Ala Trp Leu Ile  
   1                      5                      10                      15

Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr Asn Ala Arg Asp Arg Asn  
                     20                      25                      30

Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys Ala Ile Ser Lys Leu Thr  
                     35                      40                      45

Thr Arg Thr Val Lys Lys Gly Asp Lys Glu  
                     50                      55

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<400> 1032  
Ala Ala Lys Lys Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys

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<210> 1033
<211> 86
<212> PRT
<213> Homo sapiens
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<210> 1034
<211> 341
<212> PRT
<213> Homo sapiens
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<400> 1034
Pro Leu His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg
 1                      5                      10                      15

Phe Phe Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg
      20                      25                      30

Gly Asn Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn
      35                      40                      45

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Ala Val Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val  
 50 55 60  
 Thr Met Thr His Pro Gly Thr Glu His Ile Ile Ala Val Met Ile Thr  
 65 70 75 80  
 Glu Leu Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser  
 85 90 95  
 Val Gln Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe  
 100 105 110  
 Ser Arg Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met  
 115 120 125  
 Ile Ile Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg  
 130 135 140  
 Tyr Thr Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala  
 145 150 155 160  
 Lys Lys Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp  
 165 170 175  
 Lys Glu Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser  
 180 185 190  
 Tyr Lys Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe  
 195 200 205  
 His Lys Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro  
 210 215 220  
 Met Cys Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu  
 225 230 235 240  
 Pro Cys Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr  
 245 250 255  
 Gln Ala Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn  
 260 265 270  
 Ser Leu Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro  
 275 280 285  
 Gln Asp Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val  
 290 295 300  
 Thr Lys Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu  
 305 310 315 320  
 Thr Leu Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn  
 325 330 335  
 Glu Val Glu Trp Phe  
 340

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<210> 1035  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1035  
 His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe  
           1                  5                  10                  15  
 Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn  
                   20                  25                  30  
 Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val  
           35                  40                  45  
 Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu  
           50                  55                  60

<210> 1036  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036  
 Met Ser Gly Gln Gly Leu Ala Gly Phe Phe Ala Ser Val Ala Met Ile  
           1                  5                  10                  15  
 Cys Ala Ile Ala Ser Gly Ser Glu Leu Ser Glu Ser Ala Phe Gly Tyr  
                   20                  25                  30  
 Phe Ile Thr Ala Cys Ala Val Ile Ile Leu Thr Ile Ile Cys Tyr Leu  
           35                  40                  45  
 Gly Leu Pro Arg Leu Glu Phe Tyr Arg Tyr Tyr Gln Gln Leu Lys Leu  
           50                  55                  60  
 Glu Gly Pro Gly Glu Gln Glu Thr Lys Leu Asp Leu Ile Ser Lys Gly  
           65                  70                  75                  80  
 Glu Glu Pro Arg Ala Gly Lys Glu Glu Ser Gly Val Ser Val Ser Asn  
                   85                  90                  95  
 Ser Gln Pro Thr Asn Glu Ser His Ser Ile Lys Ala Ile Leu Lys Asn  
           100                  105                  110  
 Ile Ser Val Leu Ala Phe Ser Val Cys Phe Ile Phe Thr Ile Thr Ile  
           115                  120                  125  
 Gly Met Phe Pro Ala Val Thr Val Glu Val Lys Ser Ser Ile Ala Gly  
           130                  135                  140  
 Ser Ser Thr Trp Glu Arg Tyr Phe Ile Pro Val Ser Cys Phe Leu Thr

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145                      150                      155                      160  
 Phe Asn Ile Phe Asp Trp Leu Gly Arg Ser Leu Thr Ala Val Phe Met  
                                  165                      170                      175  
 Trp Pro Gly Lys Asp Ser Arg Trp Leu Pro Ser Trp Xaa Leu Ala Arg  
                                  180                      185                      190  
 Leu Val Phe Val Pro Leu Leu Leu Leu Cys Asn Ile Lys Pro Arg Arg  
                                  195                      200                      205  
 Tyr Leu Thr Val Val Phe Glu His Asp Ala Trp Phe Ile Phe Phe Met  
                                  210                      215                      220  
 Ala Ala Phe Ala Phe Ser Asn Gly Tyr Leu Ala Ser Leu Cys Met Cys  
                                  225                      230                      235                      240  
 Phe Gly Pro Lys Lys Val Lys Pro Ala Glu Ala Glu Thr Ala Glu Pro  
                                  245                      250                      255  
 Ser Trp Pro Ser Ser Cys Val Trp Val Trp His Trp Gly Leu Phe Ser  
                                  260                      265                      270  
 Pro Ser Cys Ser Gly Gln Leu Cys Asp Lys Gly Trp Thr Glu Gly Leu  
                                  275                      280                      285  
 Pro Ala Ser Leu Pro Val Cys Leu Leu Pro Leu Pro Ser Ala Arg Gly  
                                  290                      295                      300  
 Asp Pro Glu Trp Ser Gly Gly Phe Phe Phe  
                                  305                      310  
  
 <210> 1037  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1037  
 Met Ser Gly Gln Gly Leu Ala Gly Phe Phe Ala Ser Val Ala Met Ile  
   1                                  5                                  10                                  15  
 Cys Ala Ile Ala Ser Gly Ser Glu Leu Ser Glu Ser Ala Phe Gly Tyr  
                                   20                                  25                                  30  
 Phe Ile Thr Ala Cys Ala Val Ile Ile Leu Thr Ile Ile Cys Tyr Leu  
                                   35                                  40                                  45  
 Gly Leu Pro Arg Leu Glu Phe Tyr Arg Tyr Tyr Gln Gln Leu Lys Leu  
                                   50                                  55                                  60  
 Glu Gly Pro Gly Glu Gln Glu Thr Lys Leu Asp Leu Ile Ser Lys Gly  
                                   65                                  70                                  75                                  80  
 Glu Glu Pro Arg Ala Gly Lys Glu Glu Ser Gly Val Ser Val Ser Asn  
                                   85                                  90                                  95  
 Ser Gln Pro Thr Asn Glu Ser His Ser Ile

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<400> 1038
Ser Gly Val Ser Val Ser Asn Ser Gln Pro Thr Asn Glu Ser His Ser
 1          5          10          15

Ile Lys Ala Ile Leu Lys Asn Ile Ser Val Leu Ala Phe Ser Val Cys
      20          25          30

Phe Ile Phe Thr Ile Thr Ile Gly Met Phe Pro Ala Val Thr Val Glu
      35          40          45

Val Lys Ser Ser Ile Ala Gly Ser Ser Thr Trp Glu Arg Tyr Phe Ile
      50          55          60

Pro Val Ser Cys Phe Leu Thr Phe Asn Ile Phe Asp Trp Leu Gly Arg
 65          70          75          80

Ser

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<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1039
Thr Ile Gly Met Phe Pro Ala Val Thr Val Glu Val Lys Ser Ser Ile
  1                               5                               10                               15
Ala Gly Ser Ser Thr Trp Glu Arg Tyr Phe Ile Pro Val Ser Cys Phe
                20                               25                               30
Leu Thr Phe Asn Ile Phe Asp Trp Leu Gly Arg Ser Leu Thr Ala Val
      35                               40                               45
Phe Met Trp Pro Gly Lys Asp Ser Arg Trp Leu Pro Ser Trp Xaa Leu
      50                               55                               60
Ala Arg Leu Val Phe Val Pro Leu Leu Leu Leu Cys Asn Ile Lys Pro
      65                               70                               75                               80
Arg Arg Tyr Leu Thr Val Val Phe Glu His Asp Ala
      85                               90

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<210> 1040  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 1040  
 Phe Gly Pro Lys Lys Val Lys Pro Ala Glu Ala Glu Thr Ala Glu Pro  
           1                  5                  10                  15  
 Ser Trp Pro Ser Ser Cys Val Trp Val Trp His Trp Gly Leu Phe Ser  
                   20                  25                  30  
 Pro Ser Cys Ser Gly Gln Leu Cys Asp Lys Gly Trp Thr Glu Gly Leu  
                   35                  40                  45  
 Pro Ala Ser Leu Pro Val Cys Leu Leu Pro Leu Pro Ser Ala Arg Gly  
           50                  55                  60  
 Asp Pro Glu Trp Ser Gly Gly Phe Phe Phe  
           65                  70

<210> 1041  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

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Lys Arg Ile Gln Ser Pro Leu Asn Asn Lys Leu Leu Asn Ser Pro Ala

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<210> 1045
<211> 52
<212> PRT
<213> Homo sapiens
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<210> 1046
<211> 100
<212> PRT
<213> Homo sapiens
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<400> 1046

Phe Ile Thr Arg Ser Ser Phe Ser Lys Ser Phe Ser Ser Ile Arg Ser  
35 40 45



Val Gln Tyr Phe Thr Thr Trp Arg Met Ser Ser Ser Ile Gly Ser Glu  
50 55 60

Ile Val Val Ile His Ser Leu Ser Lys Val Phe Thr Ser Leu Asn Ser  
65 70 75 80

Thr Ala Pro Ala Arg Leu Gly Ala Gly Gly Leu Thr Gln Pro Ala Gly  
85 90 95

Ser Asp Cys Lys Leu Glu Arg Pro Gly Thr Pro Glu Val Glu Ala Glu  
100 105 110

Ser Ser Ser Arg Gly Phe Ser Ala Gly Gly Pro Ser Cys Phe Arg Asn  
115 120 125

Pro Ser Ile Asn Phe Trp Gly Leu Pro Gln Ala Pro Gly Arg Val Phe  
130 135 140

Ala Gly Leu Leu Ser Ser Leu Leu Phe Lys Gly Leu  
145 150 155

<210> 1049

<211> 25

<212> PRT

<213> Homo sapiens

<400> 1049

Trp Thr Leu Ser Arg Ile Lys Ser Asn Ala Ile Phe Gln Thr Asp Ser  
1 5 10 15

Thr Asp Cys Cys Ile Ser Leu Phe Met  
20 25

<210> 1050

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1050

Phe Thr Thr Trp Arg Met Ser Ser Ser Ile Gly Ser Glu Ile Val Val  
1 5 10 15

Ile His Ser Leu Ser Lys Val Phe Thr Ser Leu Asn Ser Thr Ala Pro  
20 25 30

Ala Arg Leu Gly Ala  
35

<210> 1051

<211> 28

<212> PRT

<213> Homo sapiens

<400> 1051

00933767 033201

Gly Gly Pro Ser Cys Phe Arg Asn Pro Ser Ile Asn Phe Trp Gly Leu  
 1 5 10 15

Pro Gln Ala Pro Gly Arg Val Phe Ala Gly Leu Leu  
 20 25

<210> 1052  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 1052  
 Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Asn Cys  
 1 5 10 15

Glu Pro

<210> 1053  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 1053  
 Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Asn Cys  
 1 5 10 15

Glu Pro

<210> 1054  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 1054  
 His Glu Pro Tyr Ala Val Leu Val Ile  
 1 5

<210> 1055  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1055  
 Pro Gln Pro Ser Asn Phe Pro Thr Thr Val Arg Asn Leu Pro Tyr Ser  
 1 5 10 15

Gly Ala Gly Ala Gln Pro Pro Pro Ser Asn Cys  
 20 25

<210> 1056  
 <211> 134

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<212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (130)  
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<400> 1056

Met Ala Ser Ser Val Pro Ala Gly Gly His Thr Arg Ala Gly Gly Ile  
 1 5 10 15  
 Phe Leu Ile Gly Lys Leu Asp Leu Glu Ala Ser Leu Phe Lys Ser Phe  
 20 25 30  
 Gln Trp Leu Pro Phe Val Leu Arg Lys Lys Cys Asn Phe Phe Cys Trp  
 35 40 45  
 Asp Ser Ser Ala His Ser Leu Pro Leu His Pro Leu Ser Ala Ser Cys  
 50 55 60  
 Ser Ala Pro Ala Cys His Ala Ser Asp Thr His Leu Leu Tyr Pro Ser  
 65 70 75 80  
 Thr Arg Ala Leu Cys Pro Ser Ile Phe Ala Trp Leu Val Ala Pro His  
 85 90 95  
 Ser Val Phe Arg Thr Asn Ala Pro Gly Pro Thr Pro Ser Ser Gln Ser  
 100 105 110  
 Ser Pro Val Phe Pro Val Phe Pro Val Ser Phe Met Ala Leu Ile Val  
 115 120 125  
 Cys Xaa Leu Val Cys Cys  
 130

<210> 1057  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 1057

Met Ala Ser Ser Val Pro Ala Gly Gly His Thr Arg Ala Gly Gly Ile  
 1 5 10 15  
 Phe Leu Ile Gly Lys Leu Asp Leu Glu Ala Ser Leu Phe Lys Ser Phe  
 20 25 30  
 Gln Trp Leu Pro Phe Val Leu Arg Lys Lys Cys Asn Phe Phe Cys Trp  
 35 40 45  
 Asp Ser Ser Ala His Ser Leu Pro Leu His Pro Leu Ser Ala Ser Cys  
 50 55 60  
 Ser Ala Pro Ala Cys His Ala  
 65 70

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<210> 1058  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1058  
 Phe Ala Trp Leu Val Ala Pro His Ser Val Phe Arg Thr Asn Ala Pro  
 1 5 10 15  
 Gly Pro Thr Pro Ser Ser Gln Ser Ser Pro Val Phe Pro Val Phe Pro  
 20 25 30  
 Val Ser Phe Met Ala Leu Ile Val Cys Xaa Leu Val Cys Cys  
 35 40 45

<210> 1059  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (130)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1059  
 Met Ala Ser Ser Val Pro Ala Gly Gly His Thr Arg Ala Gly Gly Ile  
 1 5 10 15  
 Phe Leu Ile Gly Lys Leu Asp Leu Glu Ala Ser Leu Phe Lys Ser Phe  
 20 25 30  
 Gln Trp Leu Pro Phe Val Leu Arg Lys Lys Cys Asn Phe Phe Cys Trp  
 35 40 45  
 Asp Ser Ser Ala His Ser Leu Pro Leu His Pro Leu Ser Ala Ser Cys  
 50 55 60  
 Ser Ala Pro Ala Cys His Ala Ser Asp Thr His Leu Leu Tyr Pro Ser  
 65 70 75 80  
 Thr Arg Ala Leu Cys Pro Ser Ile Phe Ala Trp Leu Val Ala Pro His  
 85 90 95  
 Ser Val Phe Arg Thr Asn Ala Pro Gly Pro Thr Pro Ser Ser Gln Ser  
 100 105 110  
 Ser Pro Val Phe Pro Val Phe Pro Val Ser Phe Met Ala Leu Ile Val  
 115 120 125  
 Cys Xaa Leu Val Cys Cys

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130

&lt;210&gt; 1060

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1060

Leu	Val	Asn	Trp	Ile	Leu	Lys	Leu	His	Cys	Leu	Asn	Leu	Phe	Ser	Gly
1				5					10					15	

Phe	Pro	Leu	Tyr	Leu	Glu	Lys	Asn	Ala	Thr	Ser	Ser	Ala	Gly	Thr	His
		20					25						30		

Pro	Leu	Thr	Ala	Phe	Pro	Ser	Thr	Leu	Ser	Leu	Pro	His	Ala	Leu	Pro
		35					40					45			

Leu	Pro	Ala	Met	Pro	Pro	Ile	Leu	Thr	Phe	Cys	Thr	Pro	Ala	Pro	Val
	50					55					60				

Pro	Ser	Ala	Pro	Arg	Ser	Leu	Pro	Gly	Trp	Leu	Leu	Leu	Thr	Gln	Cys
65					70				75						80

Ser	Gly	Gln	Met	Leu	Leu	Ala	Leu	Pro	His	Leu	Ala	Ser	Leu	Ala	Arg
			85						90					95	

Ser	Ser	Leu	Ser	Ser	Leu	Phe	His	Ser	Trp	Leu	Leu	Leu	Phe	Val	Xaa
		100						105					110		

Leu	Cys	Ala	Val	Asp	Phe
			115		

&lt;210&gt; 1061

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1061

Asn	Leu	Phe	Ser	Gly	Phe	Pro	Leu	Tyr	Leu	Glu	Lys	Asn	Ala	Thr	Ser
1				5					10					15	

Ser	Ala	Gly	Thr	His	Pro	Leu
			20			

&lt;210&gt; 1062

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1062

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Ser Trp Leu Leu Leu  
20

<400> 1063  
Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala  
1 5 10 15

Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu  
20 25 30

His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn  
35 40 45

Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile  
50 55 60

Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu  
65 70 75 80

Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu  
85 90 95

Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn  
100 105 110

Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val  
115 120 125

Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu  
130 135 140

Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val  
145 150 155 160

Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met  
165 170 175

Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser  
180 185 190

Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile  
195 200 205

Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp  
210 215 220

Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly  
225 230 235 240

Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn  
 245 250 255  
 Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys  
 260 265 270  
 Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
 275 280 285

<210> 1064  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1064  
 Ala His Ala Ser Ala His Ala Ser Gly Gly Ala Glu Tyr Gly Ala Leu  
 1 5 10 15

<210> 1065  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1065  
 Gln Tyr Ser Gln Tyr Val Gln Ser Ala Gln Leu Gly Trp Thr Asp Ser  
 1 5 10 15  
 Cys His Met Leu Phe Val Thr Ala Ser Phe Arg Phe Phe Ser Leu Ser  
 20 25 30  
 Ala Ser Met Gly Ser Ala Phe Ser Pro Ser Ile Ser His Ala His Thr  
 35 40 45  
 Cys Leu Phe Trp Asn Cys His Leu Trp Asn Ser Asp Cys Asn Ser Thr  
 50 55 60  
 Tyr Gly Ile Asp Arg Glu Thr Asp Phe Phe Pro Glu Arg Ser Cys Ile  
 65 70 75 80  
 Gln Tyr Ile Pro Ala Arg Arg Cys Phe Arg Lys Tyr Ala Trp Pro Ser  
 85 90 95  
 Asp Pro Gly Val Arg Gly Pro His Phe Leu Asp Ser His Gln Thr Ala  
 100 105 110  
 Met Glu Thr Ser  
 115

<210> 1066  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 1066

Ala Ser Met Gly Ser Ala Phe Ser Pro Ser Ile Ser His Ala His Thr  
 1 5 10 15

Cys Leu Phe Trp Asn Cys His Leu Trp Asn Ser Asp Cys Asn Ser Thr  
 20 25 30

Tyr Gly

&lt;210&gt; 1067

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

Phe Val His Val Val Ala Arg Val Gly Trp His Gly Thr Ser Cys Ser  
 1 5 10 15

Leu Phe Ser Ala Ser Ile Trp Met Lys Asn Gly Arg Ile Trp Leu Leu  
 20 25 30

Arg Thr Phe Pro Leu Arg Ser Gly Asp Tyr Pro Lys Asn Glu Gly Pro  
 35 40 45

Glu His Gln Asp Gln Lys Ala Lys Arg Ile Tyr Glu Asn Thr Phe Trp  
 50 55 60

Arg Glu Cys Thr Val Cys Arg Ile Ser Gln Gly Lys Asn Gln Phe Leu  
 65 70 75 80

Cys Gln Ser His Lys Cys Cys Cys Asn His Cys Ser Lys Asp Asp Asn  
 85 90 95

Ser Arg Ile Asn Met Tyr Gly His Glu Lys Cys Ser Glu Arg Lys Arg  
 100 105 110

Ser Pro Trp Lys Gln Lys Asp  
 115

&lt;210&gt; 1068

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1068

Ala Ser Ile Trp Met Lys Asn Gly Arg Ile Trp Leu Leu Arg Thr Phe  
 1 5 10 15

Pro Leu Arg Ser Gly Asp Tyr Pro Lys Asn Glu Gly Pro Glu His Gln  
 20 25 30

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 102280 2928560



<210> 1069  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1069  
 Pro Gly Arg Ala Gly Pro Ser Pro Gly Leu Ser Leu Gln Leu Pro Ala  
           1                  5                  10                  15  
 Glu Pro Gly His Pro Ala Gly Asn Leu Ala Pro Leu Thr Ser Arg Pro  
                   20                  25                  30  
 Gln Pro Leu Cys Arg Ile Pro Ala Val Pro Gly  
           35                  40

<210> 1070  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1070  
 Ala Arg Gly Arg Arg Arg Gly Arg Leu Glu Leu Trp Glu Leu Cys Leu  
           1                  5                  10                  15  
 Pro Leu Gly Cys Arg Arg Arg Arg Ser Leu Thr Met Ala Pro Gln Ser  
                   20                  25                  30  
 Leu Pro Ser Ser Arg Met Ala Pro Leu Gly  
           35                  40

<210> 1071  
 <211> 351  
 <212> PRT  
 <213> Homo sapiens

<400> 1071  
 Asn Gly Gln Ala Ser Thr Ala Lys Met Ser Ser Cys Leu Arg Ser Pro  
           1                  5                  10                  15  
 Pro Thr Leu Ala Pro Leu Ser Leu Thr Ser Gly Ile Pro Val Gln Ser  
                   20                  25                  30  
 Trp Cys Gly Ala Ser Ser Gln Leu Leu Gln Gln Ala Val Asp Arg Ala  
           35                  40                  45  
 Gln Gln Leu Leu Glu Val Ala Leu Val Leu Thr Ile Leu Gln Leu Gln  
           50                  55                  60  
 Ala Gly Gln His Leu Val Leu Ser Leu Gln Ala Gly Gln Cys Pro Ala  
           65                  70                  75                  80  
 Glu Leu Gly Val Leu Thr Val Ala Val Pro Ala Gly Gly Gln Glu Asp  
                   85                  90                  95  
 Ala Gln Cys Leu Gln His Leu Leu Thr Gly Ile Met Leu Gly Gln Arg

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<210> 1072
<211> 33
<212> PRT
<213> Homo sapiens
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<400> 1072  
Gln His Leu Val Leu Ser Leu Gln Ala Gly Gln Cys Pro Ala Glu Leu  
1 5 10 15  
Gly Val Leu Thr Val Ala Val Pro Ala Gly Gly Gln Glu Asp Ala Gln

30

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<210> 1073
<211> 26
<212> PRT
<213> Homo sapiens
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<400> 1073
Gln Leu Ser Leu Leu Leu Gly Glu His Leu Leu Arg Asp Gln Val Val
 1          5          10          15
Glu Gln Cys Asp His Ala His Gly Glu His
          20          25

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<210> 1074
<211> 32
<212> PRT
<213> Homo sapiens
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<400> 1074  
Gly Ser Pro Phe Asp Gly Leu His Leu Asp Leu Gly Val Ala Gly Lys  
1 5 10 15  
Gly Ser Ala Gln His Lys Arg Ser Ile Leu Leu His Glu Gly Leu Cys  
20 25 30

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<210> 1075
<211> 30
<212> PRT
<213> Homo sapiens
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<400> 1075  
His Leu Met Asp Ile Ile Phe Lys Ile Lys Glu Arg Ser Asn Leu Leu  
1 5 10 15  
Phe Gln Thr Gly Ala Gly Thr Ile Glu Leu Val Asp Gln Pro  
20 25 30

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<210> 1076
<211> 126
<212> PRT
<213> Homo sapiens
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<400> 1076  
 Asp Glu Pro Cys Pro Pro Pro Ala Ala Ser Cys Ala Pro Pro Ser Trp  
           1                                  5                                  10                                  15  
 Arg Met Glu Leu Arg Thr Gly Ser Val Gly Ser Gln Ala Val Ala Arg

20                      25                      30  
 Arg Met Asp Gly Asp Ser Arg Asp Gly Gly Gly Gly Lys Asp Ala Thr  
                     35                      40                      45  
 Gly Ser Glu Asp Tyr Glu Asn Leu Pro Thr Ser Ala Ser Val Ser Thr  
                     50                      55                      60  
 His Met Thr Ala Gly Ala Met Ala Gly Ile Leu Glu His Ser Val Met  
                     65                      70                      75                      80  
 Tyr Pro Val Asp Ser Val Lys Thr Arg Met Gln Ser Leu Ser Pro Asp  
                     85                      90                      95  
 Pro Lys Ala Gln Tyr Thr Ser Ile Tyr Gly Ala Leu Lys Lys Ile Met  
                     100                      105                      110  
 Arg Thr Glu Ala Ser Gly Gly Pro Cys Glu Ala Ser Thr Ser  
                     115                      120                      125

<210> 1077  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1077  
 Arg Met Glu Leu Arg Thr Gly Ser Val Gly Ser Gln Ala Val Ala Arg  
   1                    5                    10                    15  
 Arg Met Asp Gly Asp Ser Arg Asp Gly Gly Gly Gly Lys Asp Ala Thr  
                     20                    25                    30  
 Gly Ser

<210> 1078  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1078  
 Pro Val Asp Ser Val Lys Thr Arg Met Gln Ser Leu Ser Pro Asp Pro  
   1                    5                    10                    15  
 Lys Ala Gln Tyr Thr Ser Ile Tyr Gly Ala Leu  
                     20                    25

<210> 1079  
 <211> 424  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (152)

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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Met Lys Leu Leu Gly Glu Cys Ser Ser Ser Ile Asp Ser Val Lys Arg  
1 5 10 15

Asn Leu His Ser Thr Glu Thr Gln Thr Ala Gly Val Ile Asp Arg Trp  
35 40 45

Asn Leu Gln Lys Trp Gln Gln Phe Asn Ser Asp Leu Asn Ser Ile Trp  
65 70 75 80

Ala Trp Leu Gly Asp Thr Glu Glu Glu Leu Glu Gln Leu Gln Arg Leu  
85 90 95

Glu Leu Ser Thr Asp Ile Gln Thr Ile Glu Leu Gln Ile Lys Lys Leu  
100 105 110

Lys Glu Leu Gln Lys Ala Val Asp His Arg Lys Ala Ile Ile Leu Ser  
115 120 125

Ile Asn Leu Cys Ser Pro Glu Phe Thr Gln Ala Asp Ser Lys Glu Ser  
130 135 140

Arg Asp Leu Gln Asp Arg Leu Xaa Gln Met Asn Gly Arg Trp Asp Arg  
145 150 155 160

Val Cys Ser Leu Leu Glu Glu Trp Arg Gly Leu Leu Gln Asp Ala Leu  
165 170 175

Met Gln Cys Gln Gly Phe His Glu Met Ser His Gly Leu Leu Leu Met  
180 185 190

Leu Glu Asn Ile Asp Arg Arg Lys Asn Glu Ile Val Pro Ile Asp Ser  
195 200 205

Asn Leu Asp Ala Glu Ile Leu Gln Asp His His Lys Gln Leu Met Gln  
210 215 220

Ile Lys His Glu Leu Leu Glu Ser Gln Leu Arg Val Ala Ser Leu Gln  
225 230 235 240

Asp Met Ser Cys Gln Leu Leu Val Asn Ala Glu Gly Thr Asp Cys Leu  
                   245                  250                  255  
 Glu Ala Lys Glu Lys Val His Val Ile Gly Asn Arg Leu Lys Leu Leu  
                   260                  265                  270  
 Leu Lys Glu Val Ser Arg His Ile Lys Glu Leu Glu Lys Leu Leu Asp  
                   275                  280                  285  
 Val Ser Ser Ser Gln Gln Asp Leu Ser Ser Trp Ser Ser Ala Asp Glu  
                   290                  295                  300  
 Leu Asp Thr Ser Gly Ser Val Ser Pro Xaa Ser Gly Arg Ser Thr Pro  
 305                  310                  315                  320  
 Asn Arg Gln Lys Thr Pro Arg Gly Lys Cys Ser Leu Ser Gln Pro Gly  
                   325                  330                  335  
 Pro Ser Val Ser Ser Pro His Ser Arg Ser Thr Lys Gly Gly Ser Asp  
                   340                  345                  350  
 Ser Ser Leu Ser Glu Pro Xaa Pro Gly Arg Ser Gly Arg Gly Phe Leu  
                   355                  360                  365  
 Phe Arg Val Leu Arg Ala Ala Leu Pro Leu Gln Leu Leu Leu Leu  
                   370                  375                  380  
 Leu Ile Gly Leu Ala Cys Leu Val Pro Met Ser Glu Glu Asp Tyr Ser  
 385                  390                  395                  400  
 Cys Ala Leu Ser Asn Asn Phe Ala Arg Ser Phe His Pro Met Leu Arg  
                   405                  410                  415  
 Tyr Thr Asn Gly Pro Pro Pro Leu  
                   420

<210> 1080  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1080  
 Met Lys Leu Leu Gly Glu Cys Ser Ser Ser Ile Asp Ser Val Lys Arg  
   1                  5                  10                  15  
 Leu Glu His Lys Leu Lys Glu Glu Glu Ser Leu Pro Gly Phe Val  
                   20                  25                  30  
 Asn Leu His Ser Thr Glu Thr Gln Thr Ala Gly Val Ile Asp Arg Trp  
                   35                  40                  45  
 Glu Leu Leu Gln Ala Gln Ala Leu Ser Lys Glu Leu Arg Met Lys Gln  
   50                  55                  60  
 Asn Leu Gln Lys Trp Gln Gln Phe Asn Ser Asp Leu Asn Ser Ile Trp  
   65                  70                  75                  80

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Ala Trp Leu Gly Asp Thr Glu Glu Glu Leu Glu Gln Leu Gln Arg Leu  
85 90 95

Glu Leu Ser Thr Asp Ile Gln Thr Ile Glu Leu Gln Ile Lys  
100 105 110

<210> 1081  
<211> 136  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1081  
Lys Leu Lys Glu Leu Gln Lys Ala Val Asp His Arg Lys Ala Ile Ile  
1 5 10 15

Leu Ser Ile Asn Leu Cys Ser Pro Glu Phe Thr Gln Ala Asp Ser Lys  
20 25 30

Glu Ser Arg Asp Leu Gln Asp Arg Leu Xaa Gln Met Asn Gly Arg Trp  
35 40 45

Asp Arg Val Cys Ser Leu Leu Glu Glu Trp Arg Gly Leu Leu Gln Asp  
50 55 60

Ala Leu Met Gln Cys Gln Gly Phe His Glu Met Ser His Gly Leu Leu  
65 70 75 80

Leu Met Leu Glu Asn Ile Asp Arg Arg Lys Asn Glu Ile Val Pro Ile  
85 90 95

Asp Ser Asn Leu Asp Ala Glu Ile Leu Gln Asp His His Lys Gln Leu  
100 105 110

Met Gln Ile Lys His Glu Leu Leu Glu Ser Gln Leu Arg Val Ala Ser  
115 120 125

Leu Gln Asp Met Ser Cys Gln Leu  
130 135

<210> 1082  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1082  
Gln Asp Met Ser Cys Gln Leu Leu Val Asn Ala Glu Gly Thr Asp Cys

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1                    5                    10                    15  
 Leu Glu Ala Lys Glu Lys Val His Val Ile Gly Asn Arg Leu Lys Leu  
                   20                    25                    30  
 Leu Leu Lys Glu Val Ser Arg His Ile Lys Glu Leu Glu Lys Leu Leu  
                   35                    40                    45  
 Asp Val Ser Ser Ser Gln Gln Asp Leu Ser Ser Trp Ser Ser Ala Asp  
                   50                    55                    60  
 Glu Leu Asp Thr Ser Gly Ser Val Ser Pro Xaa Ser Gly Arg Ser Thr  
                   65                    70                    75                    80  
 Pro Asn Arg Gln Lys Thr Pro Arg Gly Lys Cys Ser Leu Ser Gln Pro  
                   85                    90                    95  
 Gly Pro Ser Val Ser Ser Pro His Ser  
                   100                    105

<210> 1083

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1083

Asp Ser Ser Leu Ser Glu Pro Xaa Pro Gly Arg Ser Gly Arg Gly Phe  
                   1                    5                    10                    15

Leu Phe Arg Val Leu Arg Ala Ala Leu Pro Leu Gln Leu Leu Leu  
                   20                    25                    30

Leu Leu Ile Gly Leu Ala Cys Leu Val Pro Met Ser Glu Glu Asp Tyr  
                   35                    40                    45

Ser Cys Ala Leu Ser Asn Asn Phe Ala Arg Ser Phe His Pro Met Leu  
                   50                    55                    60

Arg Tyr Thr Asn Gly Pro Pro Leu  
                   65                    70

<210> 1084

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

00933757 082201



&lt;400&gt; 1084

Gln Arg Phe Leu Pro Pro Gly Ser Cys Xaa Leu Ile Arg Gly Pro Gln  
 1 5 10 15

Cys Pro Arg Val Thr Asp Pro Thr Thr Gly Gln Ser Leu Asp Asp Ser  
 20 25 30

Arg Phe Gln Ile Gln Gln Thr Glu Asn Ile Ile Arg Ser Lys Thr Pro  
 35 40 45

Thr Gly Pro Glu Leu Asp Thr Ser Tyr Lys Gly Tyr  
 50 55 60

&lt;210&gt; 1085

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1085

Ser Ile Ser Ala Ser Arg Leu Glu Ser Ile Gly Thr Ile Ser Phe Phe  
 1 5 10 15

Leu Leu Ser Met Phe Ser Ser Ile Arg Ser Lys Pro Trp Leu Ile Ser  
 20 25 30

Trp Lys Pro Trp His Cys Ile Arg Ala Ser Cys Ser Arg Pro Arg His  
 35 40 45

Ser Ser Ser Arg Glu His Thr Arg Ser Gln Arg Pro Phe Ile Cys Xaa  
 50 55 60

Lys Arg Ser Cys Arg Ser Arg Leu Ser Leu Leu Ser Ala Trp Val Asn  
 65 70 75 80

Ser Gly Leu Gln Arg Leu Met Glu Arg Met Met Ala Leu Arg Trp Ser  
 85 90 95

Thr Ala Phe Trp Ser Ser Leu Ser Phe Leu Ile Trp Ser Ser Met Val  
 100 105 110

Trp Met Ser Val Leu Ser Ser Arg Arg Trp Ser Cys Ser Asn Ser Ser  
 115 120 125

Ser Val Ser Pro Ser Gln Ala Gln Met Leu Phe Lys Ser Glu Leu Asn  
 130 135 140

Cys Cys His Phe Trp Arg Phe Cys Phe Ile Leu Asn Ser Leu Leu Asn  
 145 150 155 160

Ala Trp Ala Trp Arg Ser Ser His Arg Ser Ile Thr Pro Ala Val Trp  
 165 170 175

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<210> 1086
<211> 35
<212> PRT
<213> Homo sapiens
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<210> 1087
<211> 26
<212> PRT
<213> Homo sapiens
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<210> 1088
<211> 171
<212> PRT
<213> Homo sapiens
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<400> 1088
Leu Ala Arg His Val Leu Gln Arg Gly Tyr Ser Glu Leu Gly Phe Gln
 1                      5                      10                     15

Gln Leu Met Leu Tyr Leu His Lys Leu Phe Val Met Val Leu Lys Tyr
      20                      25                     30

Leu Cys Ile Lys Val Arg Ile Asn Arg Asp Asn Phe Ile Phe Pro Ser
 35                      40                     45

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Val Asn Val Leu Gln His Lys Lys Gln Thr Met Ala His Phe Met Glu  
50 55 60

Thr Leu Ala Leu His Gln Gly Ile Leu Gln Gln Ala Pro Pro Leu Leu  
65 70 75 80

Gln Gln Arg Ala His Ser Val Pro Ala Pro Ile His Leu Xaa Gln Ala  
85 90 95

Ile Leu Gln Val Pro Ala Leu Leu Ala Val Ser Leu Gly Glu Leu Arg  
100 105 110

Ala Ala Glu Ile Asp Gly Glu Asp Asp Gly Phe Ala Val Val His Ser  
115 120 125

Phe Leu Glu Leu Leu Glu Leu Phe Asp Leu Glu Leu Asp Gly Leu Asp  
130 135 140

Val Ser Ala Glu Phe Gln Thr Leu Glu Leu Phe Gln Leu Leu Leu Arg  
145 150 155 160

Val Pro Gln Pro Gly Pro Asp Ala Val Gln Val  
165 170

<210> 1089

<211> 28

<212> PRT

<213> Homo sapiens

<400> 1089

Tyr Ser Glu Leu Gly Phe Gln Gln Leu Met Leu Tyr Leu His Lys Leu  
1 5 10 15

Phe Val Met Val Leu Lys Tyr Leu Cys Ile Lys Val  
20 25

<210> 1090

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1090

Val His Ser Phe Leu Glu Leu Leu Glu Leu Phe Asp Leu Glu Leu Asp  
1 5 10 15

Gly Leu Asp Val Ser Ala Glu Phe Gln Thr Leu Glu Leu  
20 25

<210> 1091

<211> 15

<212> PRT

<213> Homo sapiens

<400> 1091

0093767 032001

Ala Met Val Cys Phe Leu Cys Trp Arg Thr Leu Thr Glu Gly Lys  
 1 5 10 15

<210> 1092

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1092

Gly Ala Gly Val Gly Thr Ala Met Pro Arg Val Pro Gln Ser Ala Gly  
 1 5 10 15

Gly Ala Val Thr Trp Trp Gly Val Gly Leu Ser Gln Pro Ser Ser Val  
 20 25 30

Gln Gly Gly Ala Arg Pro Gly Thr Val Pro Gly Thr Pro Gly Pro Leu  
 35 40 45

Pro Gly Leu Ser Pro Ala Pro Pro Pro Gln His Pro Pro Pro Leu Pro  
 50 55 60

Lys Leu Phe Leu Leu Cys Leu Ser Xaa Ser Leu Pro Gln Asp Phe Ser  
 65 70 75 80

Leu Leu Leu Cys Leu Ser Leu Asp Pro Cys Pro Ser Ser Thr Ser Asp  
 85 90 95

Leu

<210> 1093

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1093

Gly Thr Val Pro Gly Thr Pro Gly Pro Leu Pro Gly Leu Ser Pro Ala  
 1 5 10 15

Pro Pro Pro Gln His Pro Pro Pro Leu Pro Lys Leu Phe Leu  
 20 25 30

<210> 1094

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

0053767.002004

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094

Ala Pro Ser Arg Cys Arg Arg Ser Val Val Gln Val Pro Tyr Ser Ala  
1 5 10 15

Phe Ser Ser Cys Ser Trp Thr Pro Thr Ala Leu Arg Arg Gly Val Leu  
20 25 30

Leu Tyr Ala Gly Leu Ser Thr Ser Ser Ala Ser Lys Ala Gln Gly Trp  
35 40 45

His Cys Leu Gly Leu Glu Tyr Pro Ser Gly Ala Ile Met Glu Val Arg  
50 55 60

Gly Arg Gly Gly Asp Arg Tyr Ala Gln Gly Pro Ser Lys Cys Trp Arg  
65 70 75 80

Gly Cys Xaa Leu Val Gly Ser Gly Ser Val Thr Ala Ile Leu Cys Pro  
85 90 95

Gly Trp Gly Lys Ala Trp Asp Ser Ala Arg His Pro Arg Thr Pro Ser  
100 105 110

Arg Leu Val Ser Cys Ser Thr Ala Ser Thr Pro Pro Thr Pro Ala Gln  
115 120 125

Ala Val Ser Pro Leu Pro Leu Xaa Phe Pro Ala Pro Gly Leu Leu Ser  
130 135 140

Ser Pro Leu Pro Leu Leu Gly Pro Leu Pro Phe Leu Tyr Leu  
145 150 155

<210> 1095

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1095

Thr Ala Leu Arg Arg Gly Val Leu Leu Tyr Ala Gly Leu Ser Thr Ser  
1 5 10 15

Ser Ala Ser Lys Ala Gln Gly Trp His Cys Leu Gly Leu Glu Tyr Pro  
20 25 30

Ser Gly Ala Ile Met  
35

<210> 1096

<211> 33

<212> PRT

00533757 "002200"

<213> Homo sapiens

<400> 1096

Ala Ile Leu Cys Pro Gly Trp Gly Lys Ala Trp Asp Ser Ala Arg His  
1 5 10 15

Pro Arg Thr Pro Ser Arg Leu Val Ser Cys Ser Thr Ala Ser Thr Pro  
20 25 30

Pro

<210> 1097

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097

Pro Pro Val Phe Met Ala Ser His Arg Pro Xaa Gly Met Glu Pro Gly  
1 5 10 15

Glu Trp Arg Phe Val Leu Val His Ile Ala Phe Xaa Cys Ala Trp Asp  
20 25 30

Leu Val Cys Glu His Val Ser Val Cys Ser Gln Val Arg Gly Arg Gly  
35 40 45

Arg Ala Gly Val Gln Gly Glu Ala Glu Glu Lys Arg Glu Val Leu Gly  
50 55 60

Gln Gly Xaa Arg Glu Ala Glu Glu Lys Gln Leu Gly Gln Gly Trp Gly  
65 70 75 80

Val Leu Arg Arg Trp Ser Arg Arg Gln Ala Trp Lys Gly Ser Trp Gly  
85 90 95

Ala Trp His Cys Pro Arg Pro Cys Pro Thr Leu Asp Arg Gly Trp Leu  
100 105 110

00933767 " 092204

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<210> 1101
<211> 137
<212> PRT
<213> Homo sapiens
<400> 1101
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Glu Leu Leu Cys Tyr Ile Cys Trp Lys Asn Thr Gly Leu Phe Ser Phe  
 1 5 10 15  
 Phe Leu Ser Val Phe Arg Gly Met Val Ser Ser Val Lys Ser Phe Leu  
 20 25 30  
 Val Gly Glu Gln Leu Leu Ser Ile Ser Glu Pro Arg Phe Lys Met Ser  
 35 40 45  
 Val Cys Lys Cys Ser Phe Leu Ser Thr Thr Ser Thr Phe Val Pro Ile  
 50 55 60  
 Ser Ser Asp Ser Lys Lys Val Ser Ser Tyr Phe Ser Leu Cys Ser Glu  
 65 70 75 80  
 Ser Leu Ala Glu Gln Asn Leu Phe Met Met Pro Glu Val Phe Cys Ser  
 85 90 95  
 Glu Gln Lys Phe Asp Pro Glu Leu Asn Asp Leu Ser Phe Phe Phe Thr  
 100 105 110  
 Arg Leu Phe Ser Ser Leu Val Thr Leu Arg Val Ser Pro His Ala Pro  
 115 120 125  
 Ala Ser Glu Met Gln Thr Val Leu Ser  
 130 135

<210> 1102  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1102  
 Thr Phe Val Pro Ile Ser Ser Asp Ser Lys Lys Val Ser Ser Tyr Phe  
 1 5 10 15  
 Ser Leu Cys Ser Glu Ser Leu Ala Glu Gln Asn Leu Phe Met Met Pro  
 20 25 30

Glu Val Phe Cys  
 35

<210> 1103  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (231)  
 <223> Xaa equals any of the naturally occurring L-amino acids

00533767 "002220"



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24005> 1103
Arg Ile Leu Leu Val Lys Tyr Ser Ala Asn Glu Glu Asn Lys Tyr Asp
      1             5             10             15

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Phe Cys Val Leu Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser  
35 40 45

Arg Asn Leu Lys Tyr Ala Ser Trp Lys Glu Phe Ser Asp Phe Met Lys  
50 55 60

Trp Ser Ile Pro Ala Phe Leu Tyr Phe Leu Asp Asn Leu Ile Val Phe  
65 70 75 80

Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val Ile Phe Ser Asn  
85 90 95

Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg Ile Val Leu Lys Xaa  
100 105 110

Arg Leu Asn Trp Ile Gln Trp Ala Ser Leu Leu Thr Leu Phe Leu Ser  
115 120 125

Ile Val Ala Leu Thr Ala Gly Thr Lys Thr Leu Gln His Asn Leu Ala  
130 135 140

Gly Arg Gly Phe His His Asp Ala Phe Phe Ser Pro Ser Asn Ser Cys  
145 150 155 160

Leu Leu Phe Arg Asn Glu Cys Pro Arg Lys Asp Asn Cys Thr Ala Lys  
165 170 175

Glu Trp Thr Phe Pro Glu Ala Lys Trp Asn Thr Thr Ala Arg Val Phe  
180 185 190

Ser His Ile Arg Leu Gly Met Gly His Val Leu Ile Ile Val Gln Cys  
195 200 205

Phe Ile Ser Ser Met Ala Asn Ile Tyr Asn Glu Lys Ile Leu Lys Glu  
210 215 220

Gly Asn Gln Leu Thr Glu Xaa Ile Phe Ile Gln Asn Ser Lys Leu Tyr  
225 230 235 240

Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg Ser  
245 250 255

Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe Tyr Gly His Ser  
260 265 270

<211> 30

<212> PRT

<212> PRT

<213> Homo sapiens

<400> 1104  
 Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val Phe Cys Val Leu  
           1                  5                  10                  15

Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser Arg Asn  
                   20                  25                  30

<210> 1105  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 1105  
 Leu Ile Val Phe Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val  
           1                  5                  10                  15

Ile Phe Ser Asn Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg  
                   20                  25                  30

<210> 1106  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1106  
 Phe Phe Ser Pro Ser Asn Ser Cys Leu Leu Phe Arg Asn Glu Cys Pro  
           1                  5                  10                  15

Arg Lys Asp Asn Cys Thr Ala Lys Glu Trp Thr  
                   20                  25

<210> 1107  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 1107  
 Tyr Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg  
           1                  5                  10                  15

Ser Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe  
                   20                  25

<210> 1108  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

0093767 "092301

Asn Ser Val Pro Asn Leu Gln Thr Leu Ala Val Leu Thr Glu Ala Ile  
1 5 10 15

Gly Pro Glu Pro Ala Ile Pro Arg Xaa Pro Arg Glu Pro Pro Val Ala  
20 25 30

Thr Ser Thr Pro Ala Thr Pro Ser Ala Gly Pro Gln Pro Leu Pro Thr  
35 40 45

Gly Thr Val Leu Val Pro Gly Gly Pro Ala Pro Pro Cys Leu Gly Glu  
50 55 60

Ala Trp Ala Leu Leu Leu Pro Pro Cys Arg Pro Ser Leu Thr Ser Cys  
65 70 75 80

Phe Trp Ser Pro Arg Pro Ser Pro Trp Lys Glu Thr Gly Val  
85 90

<211> 64

<212> PRT

<213> Home

<220>

<221> SITE

&lt;222&gt; (53)

<223> Xaa equals any of the naturally occurring L-amino acids

Val Thr Ala Gly Arg Val Gly Gly Gly Gly Pro Met Pro Pro Gln Gly  
1 5 10 15

Lys Val Gly Gln Asp Pro Gln Gly Pro Ala Arg Ser Arg Leu Gly Gly  
20 25 30

Ala Gly Ala Arg Gln Arg Val Trp Gln Val Trp Thr Trp Gln Gln Ala  
35 40 45

Ala Pro Gly Gly Xaa Gly Gly Trp Arg Ala Leu Gly Gln Trp Pro Gln  
50 55 60

<211> 26

<212> PRT

<213> Home

Ser Thr Pro Ala Thr Pro Ser Ala Gly Pro Gln Pro Leu Pro Thr Gly  
1 5 10 15

Thr Val Leu Val Pro Gly Gly Pro Ala Pro  
20 25

<400> 1111  
Gln Asp Pro Gln Gly Pro Ala Arg Ser Arg Leu Gly Gly Ala Gly Ala  
1 5 10 15

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<210> 1112
<211> 40
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1112
Ala Leu Gln Leu Ala Phe Tyr Pro Asp Ala Val Glu Glu Trp Leu Glu
 1              5              10              15

Glu Asn Val His Pro Ser Leu Gln Arg Leu Gln Xaa Leu Leu Gln Asp
          20              25              30

Leu Ser Glu Val Ser Ala Pro Pro
 35              40

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<210> 1113
<211> 30
<212> PRT
<213> Homo sapiens
```

<400> 1113  
Cys His Pro Pro Ala Leu Ala Gly Thr Leu Leu Arg Thr Pro Glu Gly  
1 5 10 15  
Arg Ala His Ala Arg Gly Leu Leu Leu Glu Ala Gly Gly Ala  
20 25 30

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<210> 1114
<211> 59
<212> PRT
<213> Homo sapiens
```

<400> 1114  
Gly Ser Ser Ser Thr Arg Ser Trp Phe Ser Thr Ser Ser Pro Gln Arg  
1 5 10 15

Ser Ala Ser Trp His Ser Gly Ala Pro Ser Cys Arg Ser Trp Arg Leu  
                   20                  25                  30  
 Pro Cys Ser Trp Leu Ser Thr Arg Met Pro Trp Arg Ser Gly Trp Arg  
                   35                  40                  45  
 Lys Thr Cys Thr Pro Ala Cys Ser Gly Cys Lys  
           50                  55

<210> 1115

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1115

Ala Ser Thr Leu Gln Pro Ser Leu Ser Pro Ser Ser Pro Pro Leu Xaa  
   1                  5                  10                  15

Pro Pro Val Glu Thr Ala Val Xaa Ser Arg Ala Leu Arg Arg Glu Gly  
                   20                  25                  30

Ala Gly Ser Phe Pro Gly Ser Asn Ile Leu Ala Leu Val Thr Gln Val  
                   35                  40                  45

Ser Leu His Leu Arg Ser Ser Val Asp Ala Leu Leu Glu Gly Asn Arg  
   50                  55                  60

Tyr Val Thr Gly Trp Phe Ser Pro Tyr His Arg Gln Arg Lys Leu Ile  
   65                  70                  75                  80

His Pro Val

<210> 1116

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1116

Pro Leu Gly Pro Glu Lys Ala Gly Leu Ala Xaa Pro Leu Val Xaa His  
1 5 10 15

Ala Ala Arg Pro Cys Pro Ser Thr Ser Leu Gln Ser Gln Cys Ser Pro  
20 25 30

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Ser Leu Xaa Xaa Glu Pro Xaa Xaa Pro Pro Arg Ser Xaa Val Ile Ser  
 35 40 45  
 Gly Gly Phe Asp Glu Asp Val Lys Ala Lys Val Glu Asn Leu Leu Gly  
 50 55 60  
 Ile Ser Ser Leu Glu Lys Thr Asp Pro Val Arg Gln Ala Pro Cys Ser  
 65 70 75 80  
 Pro Pro Cys Pro Leu Leu Pro Leu Pro Phe Xaa Arg Pro Trp Arg Gln  
 85 90 95  
 Leu Phe Ser Ala Gly Leu Ser Ala Gly Arg Gly Pro Ala Pro Ser Leu  
 100 105 110  
 Ala Ala Thr Ser Leu Pro Leu Ser His Lys Ser Ala Ser Ile Cys Ala  
 115 120 125  
 Ala Leu Trp Met Arg Cys Trp Arg Ala Thr Gly Met Ser Leu Ala Gly  
 130 135 140  
 Ser Ala Pro Thr Thr Ala Ser Gly Ser Ser Ser Thr Arg Ser Trp Phe  
 145 150 155 160  
 Ser Thr Ser Ser Pro Gln Arg Ser Ala Ser Trp His Ser Gly Ala Pro  
 165 170 175  
 Ser Cys Arg Ser Trp Arg Leu Pro Cys Ser Trp Leu Ser Thr Arg Met  
 180 185 190  
 Pro Trp Arg Ser Gly Trp Arg Lys Thr Cys Thr Pro Ala Cys Ser Gly  
 195 200 205  
 Cys Lys Leu Cys Cys Arg Thr Ser Ala Arg Cys Leu Pro Pro Arg Cys  
 210 215 220  
 His Pro Pro Ala Leu Ala Gly Thr Leu Leu Arg Thr Pro Glu Gly Arg  
 225 230 235 240  
 Ala His Ala Arg Gly Leu Leu Leu Glu Ala Gly Gly Ala Leu Xaa Xaa  
 245 250 255  
 Xaa Xaa Ala Trp Ala Ile Arg Pro Thr Trp Ala Ser Cys Pro Leu Ala  
 260 265 270  
 Gln Gln Cys Leu Ala His Thr Gln Phe Leu Arg Ala Leu Gly Ser Pro  
 275 280 285  
 Trp Gly Arg Asp  
 290

&lt;210&gt; 1117

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

0932767 082204  
 102220" 2922550

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (209)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1117  
 Phe Gln Glu Asp Leu Met Lys Met Leu Lys Arg Lys Trp Arg Thr Phe  
   1                  5                  10                  15  
 Ser Gly Phe Pro Ala Trp Lys Lys Arg Thr Leu Leu Gly Lys His Pro  
           20                  25                  30  
 Ala Ala Leu Pro Val Pro Phe Phe Pro Ser Pro Ser Pro Ala Arg Gly  
           35                  40                  45  
 Asp Ser Cys Xaa Gln Gln Gly Ser Pro Gln Gly Gly Gly Arg Leu Leu  
   50                  55                  60  
 Pro Trp Gln Gln His Pro Cys Pro Cys His Thr Ser Gln Pro Pro Ser  
   65                  70                  75                  80  
 Ala Gln Leu Cys Gly Cys Ala Ala Gly Gly Gln Gln Val Cys His Trp  
           85                  90                  95  
 Leu Val Gln Pro Leu Pro Pro Pro Ala Glu Ala His Pro Pro Gly His  
           100                  105                  110  
 Gly Ser Ala His Pro Ala Arg Ser Ala Gln Pro Pro Gly Thr Val Glu  
   115                  120                  125  
 His Pro Arg Ala Gly Ala Gly Gly Cys Pro Ala Ala Gly Phe Leu Pro  
   130                  135                  140  
 Gly Cys Arg Gly Gly Val Ala Gly Gly Lys Arg Ala Pro Gln Pro Ala  
   145                  150                  155                  160  
 Ala Ala Ala Xaa Ser Ala Ala Gly Pro Gln Arg Gly Val Cys Pro Pro  
           165                  170                  175

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<210> 1118
<211> 241
<212> PRT
<213> Homo sapiens

<220>
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<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

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Ala Leu Pro Ser Gly Val Leu Ser Asn Val Pro Ala Arg Ala Gly Gly  
1 5 10 15

Trp Gln Arg Gly Gly Arg His Leu Ala Glu Val Leu Gln Gln Ser Leu  
20 25 30

Gln Pro Leu Gln Ala Gly Val His Val Phe Leu Gln Pro Leu Leu His  
35 40 45

Gly Ile Arg Val Glu Ser Gln Leu Gln Gly Ser Leu Gln Leu Leu His  
50 55 60

Glu Gly Ala Pro Leu Cys Gln Glu Ala Glu Arg Cys Gly Leu Asp Val  
65 70 75 80

Leu Asn His Asp Arg Val Asp Glu Leu Pro Leu Ala Val Val Gly Ala  
85 90 95

Glu Pro Ala Ser Asp Ile Pro Val Ala Leu Gln Gln Arg Ile His Arg  
100 105 110

Ala Ala Gln Met Glu Ala Asp Leu Cys Asp Lys Gly Lys Asp Val Ala  
115 120 125

Ala Arg Glu Gly Ala Gly Pro Leu Pro Ala Glu Ser Pro Ala Glu Asn  
130 135 140

Ser Cys Leu His Gly Arg Xaa Lys Gly Arg Gly Arg Arg Gly Gln Gly  
145 150 155 160

Gly Leu Gln Gly Ala Cys Leu Thr Gly Ser Val Phe Ser Arg Leu Glu  
165 170 175

Ile Pro Arg Arg Phe Ser Thr Phe Ala Leu Thr Ser Ser Ser Asn Pro  
180 185 190

Pro Glu Ile Thr Xaa Xaa Arg Gly Gly Xaa Xaa Gly Ser Xaa Xaa Arg  
195 200 205

Glu Gly Leu His Trp Asp Cys Arg Leu Val Leu Gly His Gly Arg Ala  
210 215 220

Ala Trp Xaa Thr Asn Gly Gln Ala Asn Pro Ala Phe Ser Gly Pro Lys  
225 230 235 240

Gly

<210> 1119

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1119

Arg Gln Leu Phe Ser Ala Gly Leu Ser Ala Gly Arg Gly Pro Ala Pro

1 5 10 15  
 Ser Leu Ala Ala Thr Ser Leu Pro Leu Ser His Lys Ser  
 20 25

<210> 1120  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 1120  
 Glu Leu Pro Leu Ala Val Val Gly Ala Glu Pro Ala Ser Asp Ile Pro  
 1 5 10 15  
 Val Ala Leu Gln Gln Arg Ile His Arg Ala Ala Gln  
 20 25

<210> 1121  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1121  
 Gln Pro Pro Gly Thr Val Glu His Pro Arg Ala Gly Ala Gly Gly Cys  
 1 5 10 15  
 Pro Ala Ala Gly Phe Leu Pro Gly Cys Arg Gly  
 20 25

<210> 1122  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1122  
 Ser Val Phe Glu Arg Thr Asn Glu Phe Arg Asp Val Leu Trp Ser Ser  
 1 5 10 15  
 Ile

<210> 1123  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1123  
 Gly Val Val Gln Val Thr Phe Met Ser Ser Val Ser Arg Val Thr Trp  
 1 5 10 15  
 Gly Cys Gln Pro Ser Ile Cys Pro Gly Ala Pro Pro Ala Ala Ala Leu  
 20 25 30  
 Ala Gly Gly Leu Arg Leu Leu Phe Glu Arg Glu Leu Phe Gly Leu Pro

0953767 082001  
 102280 4944560

35 40 45

Val Ser Ser Pro Leu Ile Cys Ser Phe Leu Glu His His Pro Arg Thr  
50 55 60

Ser Pro Pro Pro Ser Asp Cys Glu Leu Leu Glu Gly Arg Ser Cys Val  
65 70 75 80

Leu Leu Phe Ile Phe Leu Ser Pro Glu Pro Cys Thr Asp Pro Gly Met  
85 90 95

Trp

<210> 1124  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 1124  
Ser Lys Gln Ile His Ser Phe Val His Ser Phe Ile His Leu Phe Asn  
1 5 10 15

Thr His Leu Leu Ser Thr Tyr His Ile Pro Gly Ser Val Gln Gly Ser  
20 25 30

Gly Asp Arg Lys Met Asn Arg Arg Thr Gln Leu Leu Pro Ser Arg Ser  
35 40 45

Ser Gln Ser Asp Gly Gly Gly Asp Val Leu Gly Trp Cys Ser Lys Lys  
50 55 60

Glu Gln Ile Arg Gly Glu Glu Thr Gly Arg Pro Asn Ser Ser Leu Ser  
65 70 75 80

Lys Arg Ser Leu Arg Pro Pro Ala Arg Ala Ala Ala Gly Gly Ala Pro  
85 90 95

Gly Gln Met Leu Gly  
100

<210> 1125  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 1125  
Val Thr Trp Gly Cys Gln Pro Ser Ile Cys Pro Gly Ala Pro Pro Ala  
1 5 10 15

Ala Ala Leu Ala Gly Gly Leu Arg Leu Leu Phe Glu  
20 25

<210> 1126  
<211> 23

1124 1125 1126

<213> Homo sapiens

Glu Gln Ile Arg Gly Glu Glu Thr Gly Arg Pro Asn Ser Ser Leu Ser  
1 5 10 15

Lys Arg Ser Leu Arg Pro Pro  
20

<211> 130

<213> Homo sapiens

Gln Trp Glu His Leu Leu Leu Pro His Leu Leu Arg Gly Ala His  
1 5 10 15

Arg Asp Pro Gly Asp Ile Leu Pro Leu Ala Pro Arg Ser Glu Cys Arg  
20 25 30

Ala Asn Ser Ile Lys Glu Tyr Gln Lys Ser Ile Trp Lys Val Tyr Val  
35 40 45

Val Arg Leu Arg Leu Leu Lys Pro Gln Pro Asn Ile Ile Pro Thr Val  
50 55 60

Lys Lys Ile Val Leu Leu Ala Gly Trp Ala Leu Phe Leu Phe Leu Ala  
65 70 75 80

Tyr Lys Val Ser Lys Thr Asp Arg Glu Tyr Gln Glu Tyr Asn Pro Tyr  
85 90 95

Glu Val Leu Asn Leu Asp Pro Gly Ala Thr Val Ala Glu Ile Lys Lys  
100 105 110

Gln Tyr Arg Leu Leu Ser Leu Lys Tyr His Pro Asp Lys Gly Gly Asp  
115 120 125

Glu Val  
130

<211> 65

<213> Homo sapiens

Glu Glu Arg Gly Gly Gly Gly Gly Ala Met Ala Gly Gln Gln Phe Gln  
1 5 10 15

Tyr Asp Asp Ser Gly Asn Thr Phe Phe Tyr Phe Leu Thr Ser Phe Val  
20 25 30

Gly Leu Ile Val Ile Pro Ala Thr Tyr Tyr Leu Trp Pro Arg Asp Gln

	35								40							45					
Asn	Ala	Glu	Gln	Ile	Arg	Leu	Lys	Asn	Ile	Arg	Lys	Val	Tyr	Gly	Arg						
	50					55					60										
Cys																					
65																					
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<211>	220																				
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Arg	Leu	Tyr	Thr	Gly	Cys	Val	Ile	Phe	Asp	Leu	Val	Ser	Asn	Arg	Ala						
	1			5					10					15							
Leu	Ser	Phe	Arg	Cys	Met	Leu	Cys	Cys	Asn	Ser	Cys	His	Ser	Ala	Ser						
			20					25					30								
Ser	Ser	Leu	Phe	Cys	Phe	Ser	Ser	Cys	Ser	Leu	Ser	Glu	Ser	Leu	Ser						
		35					40					45									
Leu	Pro	Ser	Ser	Phe	Ser	Leu	Trp	Glu	Ser	Leu	Leu	Val	Ser	Ser	Ser						
	50					55					60										
Ser	Glu	Ser	Leu	Pro	Leu	Ser	Glu	Thr	Ser	Ser	Ser	Ser	Ser	Phe	Thr						
65					70					75					80						
Ala	Ala	Ser	Phe	Pro	Thr	Thr	Pro	Phe	Ala	Cys	Phe	Cys	Phe	Cys	Cys						
				85					90					95							
Phe	Asp	Cys	Gly	Asn	Ser	Thr	Gly	Val	Gly	Phe	Phe	Phe	Lys	Gly	Phe						
			100				105						110								
Phe	Phe	Phe	Asp	Leu	Ala	Val	Phe	Leu	Gly	Pro	Leu	Leu	Phe	Cys	Cys						
	115					120					125										
His	Pro	Pro	Phe	Val	Leu	Phe	Leu	Leu	Val	Ser	Pro	Cys	Pro	Ser	Ser						
	130					135					140										
Ala	Gly	Cys	Ser	Ser	Ala	Ala	Gln	Met	Asp	Cys	Ser	Phe	Ser	Asn	Thr						
145					150					155					160						
Ser	Ala	Ile	Val	Cys	Leu	Val	Asn	Leu	Thr	Asn	Thr	Val	Thr	Lys	Asp						
				165					170					175							
Pro	Thr	Val	Met	Leu	Leu	Leu	Ser	Ser	Ser	Ser	Asn	Thr	Cys	Asp	Phe						
			180				185						190								
Ile	Ser	Met	Val	Thr	Tyr	Gly	Lys	Leu	Pro	Arg	Thr	Ala	Ile	Thr	Ser						
		195					200					205									
Ser	Tyr	Phe	Ser	Ser	Ser	Arg	Lys	Cys	Ser	Arg	Val										
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<210> 1130  
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 <212> PRT  
 <213> Homo sapiens

<400> 1130  
 Tyr Gln Lys Ser Ile Trp Lys Val Tyr Val Val Arg Leu Arg Leu Leu  
 1 5 10 15  
 Lys Pro Gln Pro Asn Ile Ile Pro Thr Val Lys Lys Ile Val Leu Leu  
 20 25 30  
 Ala Gly Trp  
 35

<210> 1131  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 1131  
 Cys His Pro Pro Phe Val Leu Phe Leu Leu Val Ser Pro Cys Pro Ser  
 1 5 10 15  
 Ser Ala Gly Cys Ser Ser Ala Ala Gln Met Asp Cys Ser Phe Ser Asn  
 20 25 30  
 Thr Ser Ala  
 35

<210> 1132  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1132  
 Gly Thr Ser Leu Asp Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg  
 1 5 10 15  
 Gly Cys Arg Leu Arg Thr Pro Ser Ser Asp  
 20 25

<210> 1133  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1133  
 Gln Ile Gln Arg His Thr Arg Ala Pro Lys Gln Leu Ile Pro Leu Met  
 1 5 10 15  
 Thr Pro Arg Arg Ser Leu Arg Asp His Pro Gln Ala Gln Thr Ser Arg  
 20 25 30  
 Gln Thr Pro Arg Pro Ser Ser His Leu Val Phe Met Arg Met Thr Pro

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35                      40                      45  
 Ser Ser Met Met Asn Thr Pro Ser Gly Asn Gly Gly Cys Trp Ser Gln  
     50                      55                      60  
 Leu Cys Cys Ser Ser Gln Ala Ser Ser Ser Ser Pro Val Ala Ser Ala  
     65                      70                      75                      80  
 Gly Ser Cys Pro Gly Tyr Ala Gly Ile Ile Ala Gly Glu Ser Ile Arg  
                     85                      90                      95  
 Asn Arg Ser

<210> 1134  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1134  
 Pro Arg Arg Ser Leu Arg Asp His Pro Gln Ala Gln Thr Ser Arg Gln  
     1                      5                      10                      15  
 Thr Pro Arg Pro Ser Ser His Leu Val Phe Met  
                     20                      25

<210> 1135  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1135  
 Thr His Pro Pro Glu Thr Gly Ala Val Gly Arg Ser Cys Ala Val His  
     1                      5                      10                      15  
 His Arg His His His Pro His Gln Trp Gln Val Gln Ala Ala Val Pro  
                     20                      25                      30  
 Val Met Pro Glu Ser Leu Gln Val Ser Pro Ser Glu Thr Gly Ala Asp  
                     35                      40                      45  
 Asn Xaa Leu Gly Thr Arg Arg Pro Ser Pro Leu Pro Ala His Arg Ala  
     50                      55                      60  
 Gln Pro Pro Ala Ser Pro Arg Arg Ala Trp Pro Glu Arg Glu Asp Thr  
     65                      70                      75                      80  
 Asp Asp Glu Ala Gly Ala Arg Ala Ala Gly Pro Ser Leu Leu Pro Pro  
                     85                      90                      95  
 Pro Thr Leu Pro Ala Pro Glu Gly Tyr Leu Ala Pro Trp Gly Leu Ser

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Cys

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<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Leu Gly Thr Arg Arg Pro Ser Pro Leu Pro Ala His Arg Ala Gln Pro  
20 25 30

```
<210> 1137
<211> 79
<212> PRT
<213> Homo sapiens
```

Gly Glu Val Gly Asp Ser Asp Arg Gln Pro Trp Leu Gln Leu His His  
20 25 30

Leu Cys Leu Pro Ser Leu Ala Arg Leu Phe Glu Gly Met Gln Glu Ala  
35 40 45

Gly His Gly Glu Leu Ala Gly Gly Leu Val Phe Gly Cys Pro Ala Gly  
50 55 60

Cys Gln Leu Leu Phe Leu Met Asp Ser Pro Ala Met Ile Pro Ala  
65 70 75

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<210> 1138
<211> 34
<212> PRT
<213> Homo sapiens
```

<400> 1138

Gly Glu Val Gly Asp Ser Asp Arg Gln Pro Trp Leu Gln Leu His His  
1 5 10 15

Leu Cys Leu Pro Ser Leu Ala Arg Leu Phe Glu Gly Met Gln Glu Ala  
20 25 30

Gly His

<210> 1139

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1139

Gly Ser Gly Gly Leu Ser Gly Arg Leu Cys Leu Gly Met Val Ser Gln  
1 5 10 15

Arg Ala Ser Trp Cys His Gln Trp Asp Glu Leu Leu Trp Cys Ser Cys  
20 25 30

Val Ser Leu Asp Leu Ser Leu Glu Ala His Pro Phe Leu Pro Val Ala  
35 40 45

Gly Ser Gly Ser Gly Val Val Val Phe His Gln Gln Ala Arg Leu Gly  
50 55 60

Leu Glu Arg Trp Ala Gly Val Leu Cys Arg Leu His Leu Gly Leu Val  
65 70 75 80

Ser Gly Pro Glu Cys Pro  
85

<210> 1140

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1140

Gln Trp Asp Glu Leu Leu Trp Cys Ser Cys Val Ser Leu Asp Leu Ser  
1 5 10 15

Leu Glu Ala His Pro Phe Leu Pro Val Ala Gly Ser Gly Ser Gly Val  
20 25 30

Val Val Phe His Gln Gln Ala Arg Leu  
35 40

<210> 1141

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1141

Met Arg Pro Asp Trp Lys Ala Gly Ala Gly Pro Gly Gly Pro Pro Gln

1022307 242660

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<210> 1142
<211> 180
<212> PRT
<213> Homo sapiens
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<400> 1142  
Cys Leu Glu Glu Leu Val Phe Gly Asp Val Glu Asn Asp Glu Asp Ala  
1 5 10 15  
Leu Leu Arg Arg Leu Arg Gly Pro Arg Val Gln Glu His Glu Asp Ser

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<210> 1143
<211> 218
<212> PRT
<213> Homo sapiens
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Leu Lys Glu Lys Ile Val Arg Ser Phe Glu Val Ser Pro Asp Gly Ser  
1 5 10 15

Lys Thr Lys Glu Leu Ile Gly Ser Met Lys Ile Asn Gly Arg Val Ala  
35 40 45

Ala Ser Thr Phe Ser Ser Asp Ser Lys Lys Val Tyr Ala Ser Ser Gly  
50 55 60

Asp Gly Glu Val Tyr Val Trp Asp Val Asn Ser Arg Lys Cys Leu Asn  
65 70 75 80

Arg Phe Val Asp Glu Gly Ser Leu Tyr Gly Leu Ser Ile Ala Thr Ser  
85 90 95

Arg Asn Gly Gln Tyr Val Ala Cys Gly Ser Asn Cys Gly Val Val Asn

100 105 110  
 Ile Tyr Asn Gln Asp Ser Cys Leu Gln Glu Thr Asn Pro Lys Pro Ile  
 115 120 125  
 Lys Ala Ile Met Asn Leu Val Thr Gly Val Thr Ser Leu Thr Phe Asn  
 130 135 140  
 Pro Thr Thr Glu Ile Leu Ala Ile Ala Ser Glu Lys Met Lys Glu Ala  
 145 150 155 160  
 Val Arg Leu Val His Leu Pro Ser Cys Thr Val Phe Ser Asn Phe Pro  
 165 170 175  
 Val Ile Lys Asn Lys Asn Ile Ser His Val His Thr Met Asp Phe Ser  
 180 185 190  
 Pro Arg Ser Gly Tyr Phe Ala Leu Gly Asn Glu Lys Gly Lys Ala Leu  
 195 200 205  
 Met Tyr Arg Leu His His Tyr Ser Asp Phe  
 210 215  
  
 <210> 1144  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1144  
 Lys Ile Asn Gly Arg Val Ala Ala Ser Thr Phe Ser Ser Asp Ser Lys  
 1 5 10 15  
 Lys Val Tyr Ala Ser Ser Gly Asp Gly Glu Val Tyr Val Trp Asp Val  
 20 25 30  
 Asn Ser Arg Lys Cys Leu Asn Arg Phe Val Asp Glu Gly Ser Leu Tyr  
 35 40 45  
 Gly Leu Ser Ile Ala Thr Ser Arg Asn Gly Gln Tyr Val Ala Cys Gly  
 50 55 60  
 Ser Asn Cys Gly Val Val Asn Ile Tyr Asn Gln Asp Ser Cys Leu Gln  
 65 70 75 80  
 Glu Thr Asn Pro Lys Pro Ile Lys Ala Ile Met Asn Leu Val Thr Gly  
 85 90 95  
 Val Thr Ser Leu Thr Phe Asn Pro Thr Thr Glu Ile Leu Ala Ile Ala  
 100 105 110  
 Ser Glu Lys Met Lys Glu Ala Val Arg Leu Val His Leu Pro Ser Cys  
 115 120 125  
 Thr Val Phe Ser Asn Phe Pro Val Ile Lys Asn Lys Asn Ile Ser His  
 130 135 140  
 Val His Thr Met Asp Phe Ser Pro Arg Ser Gly Tyr Phe Ala Leu Gly

1144  
 167  
 PRT  
 Homo sapiens  
 1144

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<210> 1145
<211> 58
<212> PRT
<213> Homo sapiens
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```

<400> 1145
Trp Leu Leu Gly Leu Asp Asn Ala Val Ser Leu Phe Gln Val Asp Gly
 1             5             10             15
Lys Thr Asn Pro Lys Ile Gln Ser Ile Tyr Leu Glu Arg Phe Pro Ile
          20             25             30
Phe Lys Ala Cys Phe Ser Ala Asn Gly Glu Glu Val Leu Ala Thr Ser
          35             40             45
Thr His Ser Lys Val Leu Tyr Val Tyr Asp
 50             55

```

```
<210> 1146
<211> 23
<212> PRT
<213> Homo sapiens
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```

<400> 1146
Leu Val Phe Gly Asp Val Glu Asn Asp Glu Asp Ala Leu Leu Arg Arg
 1             5             10             15
Leu Arg Gly Pro Arg Val Gln
                20

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<210> 1147
<211> 29
<212> PRT
<213> Homo sapiens
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```

<400> 1147
Lys Asn Ala Ser Glu Ser Lys Leu Ser Lys Asp Asn Leu Lys Lys Arg
  1          5          10          15
Leu Lys Glu Glu Phe Gln His Ala Met Gly Gly Val Pro
      20          25

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```
<210> 1148
<211> 23
<212> PRT
<213> Homo sapiens
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<400> 1148  
Ser Leu Pro Arg Gly Ile Leu Lys Met Lys Asn Cys Gln His Ala Asn

1	5	10	15
Ala Glu Arg Pro Thr Val Ala			
20			
<210> 1149			
<211> 246			
<212> PRT			
<213> Homo sapiens			
<400> 1149			
Met Arg Ile Leu Gln Leu Ile Leu Leu Ala Leu Ala Thr Gly Leu Val			
1 5 10 15			
Gly Gly Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Leu His Ser			
20 25 30			
Gln Pro Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly			
35 40 45			
Ala Thr Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu			
50 55 60			
Lys Pro Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu			
65 70 75 80			
Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro			
85 90 95			
Gly Phe Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn Asp Ile Met			
100 105 110			
Leu Val Lys Met Ala Ser Pro Val Ser Ile Thr Trp Ala Val Arg Pro			
115 120 125			
Leu Thr Leu Ser Ser Arg Cys Val Thr Ala Gly Thr Ser Cys Ser Phe			
130 135 140			
Pro Ala Gly Ala Ala Arg Pro Asp Pro Ser Tyr Ala Cys Leu Thr Pro			
145 150 155 160			
Cys Asp Ala Pro Thr Ser Pro Ser Leu Ser Thr Arg Ser Val Arg Thr			
165 170 175			
Pro Thr Pro Ala Thr Ser Gln Thr Pro Trp Cys Val Pro Ala Cys Arg			
180 185 190			
Lys Gly Ala Arg Thr Pro Ala Arg Val Thr Pro Gly Ala Leu Trp Ser			
195 200 205			
Val Thr Ser Leu Phe Lys Ala Leu Ser Pro Gly Ala Arg Ile Arg Val			
210 215 220			
Arg Ser Pro Glu Ser Leu Val Ser Thr Arg Lys Ser Ala Asn Met Trp			
225 230 235 240			
Thr Gly Ser Arg Arg Arg			

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<210> 1150
<211> 228
<212> PRT
<213> Homo sapiens
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```
<210> 1151
<211> 74
<212> PRT
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Gln Cys Gln Leu His Ser Ile Ser  
20

<213> Homo sapiens

Pro Lys Glu Pro Gly Val Pro Glu  
1 5

<213> Homo sapiens

Val Ser Ala Thr Ser Trp Ala Ser  
100

<213> Homo sapiens

Arg Leu Val Leu Glu Thr Leu Ser Lys Leu Ser  
20 25

<210> 1157  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1157  
 Glu Val Ile Ser Gly Leu Phe Ile Gln Ser Arg Arg Arg Glu Arg Gly  
           1                  5                  10                  15  
 Gln Gly Val Val Gly Ser His Met Ile Leu Trp Gly Lys Ser Leu Phe  
                   20                  25                  30  
 Phe Phe Ser Pro Gln Arg Leu Thr Lys Asn Ile Phe Lys Asn Tyr Ser  
           35                  40                  45  
 Leu Leu Leu Thr Gln Arg Phe Leu Phe Pro Cys Glu Thr Leu Leu Leu  
           50                  55                  60  
 Gln Tyr Val Tyr Ser Ile Arg Cys Thr Val Gln Tyr Met Lys Gly Ser  
           65                  70                  75                  80  
 Thr Leu Tyr Cys Thr Gly Leu Ser Ser Glu Gln Gly Leu Phe Thr Thr  
                   85                  90                  95  
 Ala Asn Phe Leu Ala Pro Ala Arg Leu  
           100                  105

<210> 1158  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 1158  
 Ile Arg Cys Thr Val Gln Tyr Met Lys Gly Ser Thr Leu Tyr Cys Thr  
           1                  5                  10                  15  
 Gly Leu Ser Ser Glu Gln Gly  
           20

<210> 1159  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (153)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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&lt;400&gt; 1159

Met Pro Ile Ile Asp Gln Val Asn Pro Glu Leu His Asp Phe Met Gln  
1 5 10 15

Ser Ala Glu Val Gly Thr Ile Phe Ala Leu Ser Trp Leu Ile Thr Trp  
20 25 30

Phe Gly His Val Leu Ser Asp Phe Arg His Val Val Arg Leu Tyr Asp  
35 40 45

Phe Phe Leu Ala Cys His Pro Leu Met Pro Ile Tyr Phe Ala Ala Val  
50 55 60

Ile Val Leu Tyr Arg Glu Gln Glu Val Leu Asp Cys Asp Cys Asp Met  
65 70 75 80

Ala Ser Val His His Leu Leu Ser Gln Ile Pro Gln Asp Leu Pro Tyr  
85 90 95

Glu Thr Leu Ile Ser Arg Xaa Glu Thr Phe Leu Phe Ser Phe Pro His  
100 105 110

Pro Asn Leu Leu Gly Arg Pro Leu Pro Asn Ser Lys Leu Arg Gly Arg  
115 120 125

Gln Pro Leu Leu Ser Lys Thr Leu Ser Trp His Gln Pro Ser Arg Gly  
130 135 140

Leu Ile Trp Cys Cys Gly Ser Gly Xaa Arg Gly Leu Leu Arg Pro Glu  
145 150 155 160

Asp Arg Thr Lys Asp Val Leu Thr Lys Pro Arg Thr Asn Arg Phe Val  
165 170 175

Lys Leu Ala Val Met Gly Leu Thr Val Ala Leu Gly Ala Ala Ala Leu  
180 185 190

Ala Val Val Lys Ser Ala Leu Glu Trp Ala Pro Lys Phe Gln Leu Gln  
195 200 205

Leu Phe Pro  
210

&lt;210&gt; 1160

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1160

Cys Pro Glu Phe Phe Ile Pro Ala Thr Leu Pro Cys Pro Phe Val Phe  
1 5 10 15

Ala Phe Thr Ser Glu Ala Ser Ser Arg Ala Tyr Leu Thr Gln Arg Gly  
20 25 30

Pro Gly Gly Leu Ala Gln Asn Leu Met Pro Leu Pro Val Gly Phe Trp  
35 40 45

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10230.42300

Ala Cys Ser Cys Phe Cys  
65 70

```
<210> 1161
<211> 85
<212> PRT
<213> Homo sapiens
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```
<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1161  
Cys Arg Gln Ala Gly Ala Val Arg Gly His Pro Met Phe Gln Phe Thr  
1 5 10 15

Phe Tyr Gly Val Thr Xaa Arg Phe Pro Val Thr Arg Ala Ala Gln Ala  
20 25 30

Gln Gln Val Ala Lys Ala Ala Ala Ser Phe Arg Asn Pro Leu Pro Pro  
35 40 45

Thr Pro Gly Arg Trp Gln Arg Ala His Pro Lys Ala His Trp Glu Arg  
50 55 60

His Lys Ile Leu Cys Gln Ala Pro Arg Ser Pro Leu Cys Gln Val Gly  
65 70 75 80

Ser Ala Thr Gly Leu  
85

```
<210> 1162
<211> 217
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
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<222> (159)
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```

<400> 1162  
His Ile Leu Asn Tyr Leu Met Pro Ile Ile Asp Gln Val Asn Pro Glu  
1 5 10 15

Leu His Asp Phe Met Gln Ser Ala Glu Val Gly Thr Ile Phe Ala Leu

20 25 30  
 Ser Trp Leu Ile Thr Trp Phe Gly His Val Leu Ser Asp Phe Arg His  
 35 40 45  
 Val Val Arg Leu Tyr Asp Phe Phe Leu Ala Cys His Pro Leu Met Pro  
 50 55 60  
 Ile Tyr Phe Ala Ala Val Ile Val Leu Tyr Arg Glu Gln Glu Val Leu  
 65 70 75 80  
 Asp Cys Asp Cys Asp Met Ala Ser Val His His Leu Leu Ser Gln Ile  
 85 90 95  
 Pro Gln Asp Leu Pro Tyr Glu Thr Leu Ile Ser Arg Xaa Glu Thr Phe  
 100 105 110  
 Leu Phe Ser Phe Pro His Pro Asn Leu Leu Gly Arg Pro Leu Pro Asn  
 115 120 125  
 Ser Lys Leu Arg Gly Arg Gln Pro Leu Leu Ser Lys Thr Leu Ser Trp  
 130 135 140  
 His Gln Pro Ser Arg Gly Leu Ile Trp Cys Cys Gly Ser Gly Xaa Arg  
 145 150 155 160  
 Gly Leu Leu Arg Pro Glu Asp Arg Thr Lys Asp Val Leu Thr Lys Pro  
 165 170 175  
 Arg Thr Asn Arg Phe Val Lys Leu Ala Val Met Gly Leu Thr Val Ala  
 180 185 190  
 Leu Gly Ala Ala Ala Leu Ala Val Val Lys Ser Ala Leu Glu Trp Ala  
 195 200 205  
 Pro Lys Phe Gln Leu Gln Leu Phe Pro  
 210 215

<210> 1163  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 1163  
 Ala Glu Val Gly Thr Ile Phe Ala Leu Ser Trp Leu Ile Thr Trp Phe  
 1 5 10 15  
 Gly His Val Leu Ser Asp Phe Arg His Val Val Arg Leu Tyr Asp  
 20 25 30

<210> 1164  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 1164

002200 002200 002200

Val Leu Thr Lys Pro Arg Thr Asn Arg Phe Val Lys Leu Ala Val Met  
 1 5 10 15

Gly Leu Thr Val Ala Leu Gly Ala Ala Leu Ala Val Val Lys Ser  
 20 25 30

Ala

<210> 1165

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1165

Gly Phe Gly Ser Val Ser Ala Ala Gly Arg Arg Ser Gly Gly Thr Trp  
 1 5 10 15

Gln Pro Val Gln  
 20

<210> 1166

<211> 16

<212> PRT

<213> Homo sapiens

<400> 1166

Pro Gly Gly Leu Ala Val Gly Ser Arg Trp Trp Ser Arg Ser Leu Thr  
 1 5 10 15

<210> 1167

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1167

Leu Glu Pro Ser Arg Gln Arg Arg Pro Arg Arg Arg Gly Gly Thr Ser  
 1 5 10 15

Arg Pro Glu Thr Asp Gln Arg Ala Lys Cys Trp Arg Gln Leu  
 20 25 30

<210> 1168

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1168

Val Cys Leu Arg Cys Gln Asn Arg Met Glu Asn  
 1 5 10

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<210> 1169  
 <211> 367  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1169  
 Met Ala Ala Cys Thr Ala Arg Arg Pro Gly Arg Gly Gln Pro Leu Val  
   1                  5                  10                  15  
 Val Pro Val Ala Asp Xaa Gly Pro Val Ala Lys Ala Ala Leu Cys Ala  
                   20                  25                  30  
 Ala Xaa Ala Gly Ala Phe Ser Pro Ala Ser Thr Thr Thr Thr Arg Arg  
                   35                  40                  45  
 His Leu Ser Ser Arg Asn Arg Pro Glu Gly Lys Val Leu Glu Thr Val  
   50                  55                  60  
 Gly Val Phe Glu Val Pro Lys Gln Asn Gly Lys Tyr Glu Thr Gly Gln  
   65                  70                  75                  80  
 Leu Phe Leu His Ser Ile Phe Gly Tyr Arg Gly Val Val Leu Phe Pro  
                   85                  90                  95  
 Trp Gln Ala Arg Leu Xaa Asp Arg Asp Val Ala Ser Ala Ala Pro Glu  
                   100                  105                  110  
 Lys Ala Glu Asn Pro Ala Gly His Gly Ser Lys Glu Val Lys Gly Lys  
   115                  120                  125  
 Thr His Thr Tyr Tyr Gln Val Leu Ile Asp Ala Arg Asp Cys Pro His  
   130                  135                  140  
 Ile Ser Gln Arg Ser Gln Thr Glu Ala Val Thr Phe Leu Ala Asn His  
   145                  150                  155                  160  
 Asp Asp Ser Arg Ala Leu Tyr Ala Ile Pro Gly Leu Asp Tyr Val Ser  
                   165                  170                  175  
 His Glu Asp Ile Leu Pro Tyr Thr Ser Thr Asp Gln Val Pro Ile Gln  
                   180                  185                  190

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His Glu Leu Phe Glu Arg Phe Leu Leu Tyr Asp Gln Thr Lys Ala Pro  
 195 200 205

Pro Phe Val Ala Arg Glu Thr Leu Arg Ala Trp Gln Glu Lys Asn His  
 210 215 220

Pro Trp Leu Glu Leu Ser Asp Val His Arg Glu Thr Thr Glu Asn Ile  
 225 230 235 240

Arg Val Thr Val Ile Pro Phe Tyr Met Gly Met Arg Glu Ala Gln Asn  
 245 250 255

Ser His Val Tyr Trp Trp Arg Tyr Cys Ile Arg Leu Glu Asn Leu Asp  
 260 265 270

Ser Asp Val Val Gln Leu Arg Glu Arg His Trp Arg Ile Phe Ser Leu  
 275 280 285

Ser Gly Thr Leu Glu Thr Val Arg Gly Arg Gly Val Val Gly Arg Glu  
 290 295 300

Pro Val Leu Ser Lys Glu Gln Pro Ala Phe Gln Tyr Ser Ser His Val  
 305 310 315 320

Ser Leu Gln Ala Ser Ser Gly His Met Trp Gly Thr Phe Arg Phe Glu  
 325 330 335

Arg Pro Asp Gly Ser His Phe Asp Val Arg Ile Pro Pro Phe Ser Leu  
 340 345 350

Glu Ser Asn Lys Asp Glu Lys Thr Pro Pro Ser Gly Leu His Trp  
 355 360 365

<210> 1170

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1170

Met Ala Ala Cys Thr Ala Arg Arg Pro Gly Arg Gly Gln Pro Leu Val  
 1 5 10 15

Val Pro Val Ala Asp Xaa Gly Pro Val Ala Lys Ala Ala Leu Cys Ala  
 20 25 30

Ala

<210> 1171

<211> 33

<212> PRT

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<210> 1174  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1174  
 Met Ala Ala Cys Thr Ala Arg Arg Pro Gly Arg Gly Gln Pro Leu Val  
     1                    5                    10                    15  
 Val Pro Val Ala Asp Xaa Gly Pro Val Ala Lys Ala Ala Leu Cys Ala  
                     20                    25                    30

Ala

<210> 1175  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 1175  
 Val Leu Glu Thr Val Gly Val Phe Glu Val Pro Lys Gln Asn Gly Lys  
     1                    5                    10                    15  
 Tyr Glu Thr Gly Gln Leu Phe Leu His Ser Ile Phe Gly Tyr Arg Gly  
                     20                    25                    30

Val Val Leu  
             35

<210> 1176  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1176  
 Gly Leu Asp Tyr Val Ser His Glu Asp Ile Leu Pro Tyr Thr Ser Thr  
     1                    5                    10                    15

<210> 1177  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 1177

0033757 0033757

Asp Val His Arg Glu Thr Thr Glu Asn Ile Arg Val Thr Val Ile Pro  
 1 5 10 15

Phe Tyr Met

<210> 1178  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1178  
 Trp Trp Arg Tyr Cys Ile Arg Leu Glu Asn Leu Asp Ser Asp Val Val  
 1 5 10 15

Gln Leu Arg Glu Arg  
 20

<210> 1179  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1179  
 Pro Ala Phe Gln Tyr Ser Ser His Val Ser Leu Gln Ala Ser Ser Gly  
 1 5 10 15

His Met Trp Gly Thr Phe Arg Phe Glu Arg  
 20 25

<210> 1180  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (182)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (194)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180  
 Arg Leu Pro Ser His Lys Arg Arg Cys Phe Cys Leu Val Ile Gln Lys  
 1 5 10 15

Lys Ser Phe Lys Glu Phe Met Leu Asp Gly Asn Leu Ile Ser Gly Gly

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20                      25                      30  
 Val Gly Glu Asp Val Phe Met Ala Asp Ile Val Gln Ala Trp Asp Gly  
                     35                      40                      45  
 Ile Glu Gly Pro Thr Val Ile Met Val Ser Gln Glu Gly His Ser Phe  
                     50                      55                      60  
 Cys Leu Arg Ser Leu Arg Tyr Met Trp Ala Val Thr Ser Ile Asn Gln  
                     65                      70                      75                      80  
 His Leu Ile Val Ser Val Ser Phe Ala Phe His Leu Leu Gly Ala Met  
                     85                      90                      95  
 Ala Ser Arg Val Leu Cys Phe Phe Trp Ser Cys Arg Ser His Ile Pro  
                     100                      105                      110  
 Val Xaa Gln Ser Gly Leu Pro Gly Lys Gln Asp Asp Thr Ser Val Ala  
                     115                      120                      125  
 Lys Asn Ala Met Lys Glu Lys Leu Pro Gly Leu Ile Phe Ser Ile Leu  
                     130                      135                      140  
 Phe Trp His Leu Lys His Thr Asn Cys Leu Gln His Phe Ala Leu Trp  
                     145                      150                      155                      160  
 Ser Val Ser Gly Arg Glu Val Pro Pro Arg Arg Arg Gly Arg Arg Trp  
                     165                      170                      175  
 Arg Glu Gly Ser Ser Xaa Gly Arg Ala Gln Ser Gly Leu Gly His Arg  
                     180                      185                      190  
 Ala Xaa Val Ser Asp Arg Asp His Gln Arg Leu Pro Thr Ala Arg Pro  
                     195                      200                      205  
 Pro Gly Cys Thr Gly Cys His Val Pro Pro Glu Arg Arg Pro Ala Ala  
                     210                      215                      220  
 Asp Thr Glu Pro Asn Pro  
                     225                      230

&lt;210&gt; 1181

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1181

Lys Glu Phe Met Leu Asp Gly Asn Leu Ile Ser Gly Gly Val Gly Glu  
                     1                      5                      10                      15

Asp Val Phe Met Ala Asp Ile Val Gln Ala Trp Asp Gly Ile Glu  
                     20                      25                      30

&lt;210&gt; 1182

&lt;211&gt; 29

&lt;212&gt; PRT

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<213> Homo sapiens

<400> 1182

Ala Val Thr Ser Ile Asn Gln His Leu Ile Val Ser Val Ser Phe Ala  
1 5 10 15

Phe His Leu Leu Gly Ala Met Ala Ser Arg Val Leu Cys  
20 25

<210> 1183

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1183

Thr Ala Arg Pro Pro Gly Cys Thr Gly Cys His Val Pro Pro Glu Arg  
1 5 10 15

Arg Pro Ala Ala  
20

<210> 1184

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1184

Ser Leu Cys Cys Pro Glu Gly Ala Glu Gly Cys  
1 5 10

<210> 1185

<211> 12

<212> PRT

<213> Homo sapiens

<400> 1185

Gln Leu Lys Lys Thr His Tyr Asp Arg Pro Cys Pro  
1 5 10

<210> 1186

<211> 12

<212> PRT

<213> Homo sapiens

<400> 1186

Gln Leu Lys Lys Thr His Tyr Asp Arg Pro Cys Pro  
1 5 10

<210> 1187

<211> 29

<212> PRT

<213> Homo sapiens

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Met Asn Arg Pro Cys Pro Phe Cys Leu Trp Lys Val Phe Pro Leu Leu

<210> 1188

<211> 33

<212> PRT

<213> Homo sapiens

<400> 1188

<400> 1188  
Lys Glu Lys Thr Phe Thr Pro Arg Asn Ser Leu Cys Cys Pro Glu Gly  
1 5 10 15

Ala Glu Gly Cys Ile Ala Gly Gly Asp Leu Gln Leu Lys Lys Thr His  
20 25 30

Tyr

<210> 1189

<211> 170

<212> PRT

<213> Homo sapiens

<400> 1189

<400> 1189  
Ala Gln Arg Lys Lys Glu Met Val Leu Ser Glu Lys Val Ser Gln Leu  
1 5 10 15

Met Glu Trp Thr Asn Lys Arg Pro Val Ile Arg Met Asn Gly Asp Lys  
20 25 30

Phe Arg Arg Leu Val Lys Ala Pro Pro Arg Asn Tyr Ser Val Ile Val  
35 40 45

Met Phe Thr Ala Leu Gln Leu His Arg Gln Cys Val Val Cys Lys Gln  
50 55 60

Ala Asp Glu Glu Phe Gln Ile Leu Ala Asn Ser Trp Arg Tyr Ser Ser  
65 70 75 80

Ala Phe Thr Asn Arg Ile Phe Phe Ala Met Val Asp Phe Asp Glu Gly  
85 90 95

Ser Asp Val Phe Gln Met Leu Asn Met Asn Ser Ala Pro Thr Phe Ile  
100 105 110

Asn Phe Pro Ala Lys Gly Lys Pro Lys Arg Gly Asp Thr Tyr Glu Leu  
115 120 125

Gln Val Arg Gly Phe Ser Ala Glu Gln Ile Ala Arg Trp Ile Ala Asp  
130 135 140

Arg Thr Asp Val Asn Ile Arg Val Ile Arg Pro Pro Asn Met Ala Ala

145                      150                      155                      160

Arg Trp Arg Phe Trp Cys Val Ser Val Thr  
                    165                      170

<210> 1190

<211> 15

<212> PRT

<213> Homo sapiens

<400> 1190

Met Val Val Ala Leu Leu Ile Val Cys Asp Val Pro Ser Ala Ser  
      1                      5                      10                      15

<210> 1191

<211> 16

<212> PRT

<213> Homo sapiens

<400> 1191

Ala Gln Arg Lys Lys Glu Met Val Leu Ser Glu Lys Val Ser Gln Leu  
      1                      5                      10                      15

<210> 1192

<211> 17

<212> PRT

<213> Homo sapiens

<400> 1192

Met Glu Trp Thr Asn Lys Arg Pro Val Ile Arg Met Asn Gly Asp Lys  
      1                      5                      10                      15

Phe

<210> 1193

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1193

Arg Arg Leu Val Lys Ala Pro Pro Arg Asn Tyr Ser Val Ile Val Met  
      1                      5                      10                      15

Phe Thr Ala Leu Gln Leu His Arg Gln Cys Val Val Cys Lys Gln Ala  
                    20                      25                      30

Asp Glu Glu Phe Gln Ile Leu Ala Asn Ser Trp Arg Tyr Ser Ser Ala  
                    35                      40                      45

Phe Thr Asn Arg Ile Phe Phe Ala

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55

&lt;210&gt; 1194

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1194

Met Val Asp Phe Asp Glu Gly Ser Asp Val Phe Gln Met Leu Asn Met  
 1 5 10 15

Asn Ser Ala Pro Thr Phe Ile Asn Phe Pro Ala Lys Gly Lys Pro  
 20 25 30

&lt;210&gt; 1195

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1195

Lys Arg Gly Asp Thr Tyr Glu Leu Gln Val Arg Gly Phe Ser Ala Glu  
 1 5 10 15

Gln Ile Ala Arg Trp Ile Ala Asp Arg Thr Asp Val Asn Ile Arg Val  
 20 25 30

Ile Arg Pro Pro Asn  
 35

&lt;210&gt; 1196

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1196

Tyr Ala Gly Pro Leu Met Leu Gly Leu Leu Leu Ala Val Ile Gly Gly  
 1 5 10 15

Leu Val Tyr Leu Arg Arg Val Ile Trp Asn Phe Ser Leu Ile Lys Leu  
 20 25 30

Asp Gly Leu Leu Gln Leu Cys Val Leu Cys Leu Leu  
 35 40

&lt;210&gt; 1197

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1197

Asp Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp  
 1 5 10 15

Ser

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<210> 1198  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1198  
 Cys Gln Glu Gly Ala Lys Asp Met Trp Asp Lys Leu Arg Lys Glu Ser  
           1                  5                  10                  15

Lys Asn Leu Asn  
                   20

<210> 1199  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1199  
 Val Leu Leu Val Ser Leu Ser Ala Ala Leu Ala Thr Trp Leu Ser Phe  
           1                  5                  10                  15

<210> 1200  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1200  
 Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val  
           1                  5                  10                  15  
 Gln Ile Ala Tyr Leu Val Gln Ala Val Arg Ala Ala Gly Lys Cys Asp  
                   20                  25                  30  
 Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Ser  
           35                  40                  45

<210> 1201  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1201  
 Pro Ala Ala Trp Asp Asp Lys Thr Asn Ile Lys Thr Val Cys Thr Tyr  
           1                  5                  10                  15  
 Trp Glu Asp Phe His Ser Cys Thr Val Thr Ala Leu Thr Asp Cys Gln

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<210> 1202
<211> 143
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1202  
Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val  
1 5 10 15

Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Ser  
35 40 45

Xaa Xaa Xaa Xaa Xaa Pro Ala Ala Trp Asp Asp Lys Thr Asn Ile Lys  
50 55 60

Leu Leu Arg Gly Asp Arg Asn Val Asn Leu Val Leu Leu Cys  
20 25 30

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<400> 1209
Thr Ile Tyr Pro Thr Glu Glu Glu Leu Gln Ala Val Gln Lys Ile Val
 1             5             10             15

Ser Ile Thr Glu Arg Ala Leu Lys Leu Val Ser Asp Ser Leu Ser Glu
          20             25             30

His Glu Lys Asn Lys Asn Lys Glu Gly Asp Asp Lys Lys Glu Gly Gly
 35             40             45

Lys Asp Arg Ala Leu Lys Gly Val Leu Arg Val Gly Val Leu Ala Lys

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50                      55                      60  
 Gly Leu Leu Leu Arg Gly Asp Arg Asn Val Asn Leu Val Leu Leu Cys  
 65                      70                      75                      80  
 Ser Glu Lys Pro Ser Lys Thr Leu Leu Ser Arg Ile Ala Glu Asn Leu  
 85                      90                      95  
 Pro Lys Gln Leu Ala Val Ile Ser Pro Glu Lys Tyr Asp Ile Lys Cys  
 100                      105                      110  
 Ala Val Ser Glu Ala Ala Ile Ile Leu Asn Ser Cys Val Glu Pro Lys  
 115                      120                      125  
 Met Gln Val Thr Ile Thr Leu Thr Ser Pro Ile Ile Arg Glu Glu Asn  
 130                      135                      140  
 Met Arg Glu Gly Asp Val Thr Ser Gly Met Val Lys Asp Pro Pro Asp  
 145                      150                      155                      160  
 Val Leu Asp Arg Gln Lys Cys Leu Asp Ala Leu Ala Ala Leu Arg His  
 165                      170                      175  
 Ala Lys Trp Phe Gln Ala Arg Ala Asn Gly Leu Gln Ser Cys Val Ile  
 180                      185                      190  
 Ile Ile Arg Ile Leu Arg Asp Leu Cys Gln Arg Val Pro Thr Trp Ser  
 195                      200                      205  
 Asp Phe Pro Ser Trp Ala Met Glu Leu Leu Val Glu Lys Ala Ile Ser  
 210                      215                      220  
 Ser Ala Ser Ser Pro Gln Ser Pro Gly Asp Ala Leu Arg Arg Val Phe  
 225                      230                      235                      240  
 Glu Cys Ile Ser Ser Gly Ile Ile Leu Lys Gly Ser Pro Gly Leu Leu  
 245                      250                      255  
 Asp Pro Cys Glu Lys Asp Pro Phe Asp Thr Leu Ala Thr Met Thr Asp  
 260                      265                      270  
 Gln Gln Arg Glu Asp Ile Thr Ser Ser Ala Gln Phe Ala Leu Arg Leu  
 275                      280                      285  
 Leu Ala Phe Arg Gln Ile His Lys Val Leu Gly Met Asp Pro Leu Pro  
 290                      295                      300  
 Gln Met Ser Gln Arg Phe Asn Ile His Asn Asn Arg Lys Arg Arg Arg  
 305                      310                      315                      320  
 Asp Ser Asp Gly Val Asp Gly Phe Glu Ala Glu Gly Lys Lys Asp Lys  
 325                      330                      335  
 Lys Asp Tyr Asp Asn Phe  
 340

&lt;210&gt; 1210

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<400> 1214  
Gln Gly Thr Gly Tyr Ile Pro Thr Glu Gln Val Asn Glu Leu Val Ala  
1 5 10 15  
Leu Ile Pro His Ser Asp Gln Arg Leu Arg Pro Gln Arg Thr Lys Gln

20

25

30

Tyr Val

&lt;210&gt; 1215

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1215

Ala Arg Leu Asn Val Gly Arg Glu Ser Leu Lys Arg Glu Met Leu Lys  
 1 5 10 15

Ser Gln Gly Val Lys Val Ser Glu Ser Pro Met Gly Ala Arg His Ser  
 20 25 30

Ser Trp Pro Glu Gly Ala Ala Phe Cys Lys Lys Val Gln Gly Ala Gln  
 35 40 45

Met Gln Phe Pro Pro Arg Arg  
 50 55

&lt;210&gt; 1216

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1216

Ala Arg Leu Asn Val Gly Arg Glu Ser Leu Lys Arg Glu Met Leu  
 1 5 10 15

&lt;210&gt; 1217

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1217

Leu Lys Ser Gln Gly Val Lys Val Ser Glu Ser Pro Met Gly Ala Arg  
 1 5 10 15

His Ser Ser Trp  
 20

&lt;210&gt; 1218

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1218

Ala Phe Cys Lys Lys Val Gln Gly Ala Gln Met Gln Phe Pro Pro Arg  
 1 5 10 15

Arg

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<210> 1219  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1219  
 Ala Phe Cys Lys Lys Val Gln Gly Ala Gln Met Gln Phe Pro Pro Arg  
           1                  5                  10                  15

Arg

<210> 1220  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 1220  
 Asn Phe Phe Phe Val Cys Leu Phe Lys Ser Ser Leu Arg Leu Val Asn  
           1                  5                  10                  15

Ser Ser Tyr Thr Pro Ile Leu Cys Val Leu  
                   20                  25

<210> 1221  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1221  
 Val Gln Val Leu Glu Gln Leu Thr Asn Asn Ala Val Ala Glu Ser Arg  
           1                  5                  10                  15

Phe Asn Asp Ala Ala Tyr Tyr Tyr Trp Met Leu Ser Met Gln Cys Leu  
                   20                  25                  30

Asp Ile Ala Gln Asp  
                   35

<210> 1222  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1222  
 Pro Ala Gln Lys Asp Thr Met Leu Gly Lys Phe Tyr His Phe Gln Arg  
           1                  5                  10                  15

Leu Ala Glu Leu Tyr His Gly Tyr His Ala Ile His Arg His Thr Glu  
                   20                  25                  30

Asp Pro

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<210> 1223  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 1223  
 Leu Ala Lys Gln Ser Lys Ala Leu Gly Ala Tyr Arg Leu Ala Arg His  
           1                  5                  10                  15  
 Ala Tyr Asp Lys Leu Arg Gly Leu Tyr Ile Pro  
                   20                  25

<210> 1224  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1224  
 Ala Arg Phe Gln Lys Ser Ile Glu Leu Gly Thr Leu Thr Ile Arg Ala  
           1                  5                  10                  15  
 Lys Pro Phe His Asp Ser Glu Glu Leu Val Pro Leu Cys Tyr Arg Cys  
                   20                  25                  30  
 Ser Thr Asn Asn  
                   35

<210> 1225  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1225  
 Pro Leu Leu Asn Asn Leu Gly Asn Val Cys Ile Asn Cys Arg Gln Pro  
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 Phe Ile Phe Ser Ala Ser Ser Tyr Asp Val Leu His Leu Val Glu Phe  
                   20                  25                  30  
 Tyr Leu Glu Glu Gly Ile Thr Asp Glu Glu Ala Ile Ser Leu Ile Asp  
                   35                  40                  45  
 Leu Glu Val Leu Arg Pro Lys Arg Asp Asp Arg Gln Leu Glu Ile Cys  
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 Lys Gln Gln Leu Pro Asp Ser Cys Gly  
           65                  70

<210> 1226  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

0993757 082204

&lt;400&gt; 1226

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 1 5 10 15

Gln Lys Ala Phe His Lys Ala Gly Arg Gln Arg Glu Ala  
 20 25

&lt;210&gt; 1227

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1227

Phe Ser Val His Arg Pro Glu Thr Leu Phe Asn Ile Ser Arg Phe Leu  
 1 5 10 15

Leu His Ser Leu Pro Lys Asp Thr Pro Ser Gly Ile Ser Lys Val Lys  
 20 25 30

Ile Leu Phe Thr  
 35

&lt;210&gt; 1228

&lt;211&gt; 1384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1228

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ctctggcttg ccctggcctg cagccctggt cactactacc tgtcaaagtc agatgccaaa	180
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cgggggttgg tggtagcga cctcaaagct gagagtgtgg ttcttgagca tcgcagctac	300
tgctcggcaa agggccggga cagacacttt gctggggatg tactgggcta tgctactcca	360
tggaacagcc atggctacga tgtaccaag gtctttggga gcaagttcac acagatctca	420
cccgtctggc tgcagctgaa gagacgtggc cgtgagatgt ttgaggtcac gggcctccac	480
gacgtggacc aagggtggat gcgagctgtc aggaagcatg ccaagggcct gcacatagtg	540
cctcggctcc tgtttgagga ctggacttac gatgatctcc ggaacgtctt agacagtgag	600
gatgagatag aggagctgag caagaccgtg gtccaggtgg caaagaacca gcatttcgat	660
ggcttcgtgg tggaggtctg gaaccagctg ctaagccaga agcgcggtgg cctcatccac	720
atgctcacc acttggccga ggctctgcac caggcccggc tgctggccct cctggtcacc	780
ccgcctgcca tcacccccg gaccgaccag ctgggcatgt tcacgcacaa ggagtttgag	840

003330 082001

cagctggccc ccgtgctgga tggtttcagc ctcatgacct acgactactc tacagcgcac 900  
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 gcctggacta cttctacgac ctgctctagg tgggcattgc ggctcccggt gtggacgtgt 1260  
 tcttttctaa gccatggagt gagtgcagc gtgtgaaata caggcctcca ctccgaaaaa 1320  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380  
 aaaa 1384

<210> 1229  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

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 cctctggctt gccctggcct gcagccctgt tcacactacc ctgtcaaagt cagatgccaa 180  
 aaaagccgcc tcaaagacgc tgctggagaa gagtgcagttt tcagataagc cggtgcaaga 240  
 ccgggggtttg gtggtgacgg acctcaaagc tgagagtgtg gttcttgagc atgcagcta 300  
 ctgctcggca aaggccccgg acagacactt tgctggggat gtactgggct atgtcactcc 360  
 atggaacagc catggctacg atgtcaccaa ggtctttggg agcaagttca cacagatctc 420  
 acccgtctgg ctgcagctga agagacgtgg ccgtgagatg tttgaggtca cgggcctcca 480  
 cgacgtggac caagggtgga tgcgagctgt caggaagcat gccaaaggcc tgcacatagt 540  
 gcctcggctc ctgtttgagg actggactta cgatgatttc cggaacgtct tagacagtga 600  
 ggatgagata gaggagctga gcaagaccgt ggtccaggtg gcaaagaacc agcatttcga 660  
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103230" 2323232323

gggcatgttc acgcacaagg agtttgagca gctggccccc gtgctggatg gtttcagcct 780  
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 ggccagggtac atccagacac tgaaggacca caggcccccg atggtgtggg acagccaggy 1020  
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 aacctgaag tccctgcagg tgcggctgga gctggcccg gagctggcg ttgggtctc 1140  
 tatctgggag ctgggccagg gcctggacta cttctacgac ctgctctagg tgggcattgc 1200  
 ggcctccgag gtggacgtgt tcttttctaa gccatggagt gaggtagcag gtgtgaaata 1260  
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<210> 1230  
 <211> 1112  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 cttgccctgg cctgcagccc tgttcacact accctgtcaa agtcagatgc caaaaaagcc 180  
 gcctcaaaga cgctgctgga gaagagtcag ttttcagata agccggtgca agaccggggt 240  
 ttggtggtga cggacctcaa agctgagagt gtggttcttg agcatcgcag ctactgctcg 300  
 gcaaaggccc gggacagaca ctttgctggg gatgtactgg gctatgtcac tccatggaac 360  
 agccatggct acgatgtcac caaggtcttt gggagcaagt tcacacagat ctcacccgtc 420  
 tggctgcagc tgaagagacg tggccgtgag atgtttgagg tcacgggect ccacgacgtg 480  
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 gccatcacc cgggaccga ccagctgggc atgttcacgc acaaggagtt tgagcagctg 840  
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 aagtggcgaa caaatcttc ctggggstca acttctatgg watggactam gcgacytcca 1020  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2447)  
 <223> n equals a,t,g, or c

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 ttctgtggat aaccgtatta ccgcctttga gtgagctgat accgctcgcc gcagccgaac 180  
 gaccgagcgc agcgagtcag tgagcgagga agcggaagag cgccaatac gcaaaccgcc 240  
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0093767 082204

agcgggcagt gagcgcaacg caattaatgt gagttagctc actcattagg caccaccaggc 360  
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 cacaggaaac agctatgacc atgattacgc caagctcgaa attaacctc actaaaggga 480  
 aaaaaagctg gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgggct 540  
 gcaggaattc ggcacgaggt ccggcctccc tgacatgcag atttccaccc agaagacaga 600  
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 cagccaccgt ttcagcctgg ccagccctct ggaccccgag gttggaccct actgtgacac 720  
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 aagccagaag cgcgtgggcc tcatccacat gctcacccac ttggccgagg ctctgcacca 1380  
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 gtgaaataca ggcctccact ccgttaaaaa aaaaaaaaaa aaaaaaact cgaggggggg 1980  
 cccggtaccc aattcgcct atagtgagtc gtattacaat tcactggccg tcgttttaca 2040

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<210> 1232
<211> 307
<212> PRT
<213> Homo sapiens

<400> 1232
Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
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Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
              20              25              30
Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
              35              40              45
Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50              55              60
Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65              70              75              80
Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
              85              90              95
Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
              100              105              110
Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
              115              120              125
Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
              130              135              140
His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
145              150              155              160
Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
              165              170              175
Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu

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	180							185						190					
Val	Trp	Asn	Gln	Leu	Leu	Ser	Gln	Lys	Arg	Val	Gly	Leu	Ile	His	Met				
		195					200					205							
Leu	Thr	His	Leu	Ala	Glu	Ala	Leu	His	Gln	Ala	Arg	Leu	Leu	Ala	Leu				
		210				215					220								
Leu	Val	Ile	Pro	Pro	Ala	Ile	Thr	Pro	Gly	Thr	Asp	Gln	Leu	Gly	Met				
225					230					235					240				
Phe	Thr	His	Lys	Glu	Phe	Glu	Gln	Leu	Ala	Pro	Val	Leu	Asp	Gly	Phe				
				245					250					255					
Ser	Leu	Met	Thr	Tyr	Asp	Tyr	Ser	Thr	Ala	His	Gln	Pro	Gly	Pro	Asn				
			260					265					270						
Ala	Pro	Leu	Ser	Trp	Val	Arg	Ala	Cys	Val	Gln	Val	Leu	Asp	Pro	Lys				
		275					280					285							
Ser	Lys	Trp	Arg	Ser	Lys	Ile	Leu	Leu	Gly	Leu	Asn	Phe	Tyr	Gly	Thr				
	290					295					300								
Ser	Arg	His																	
305																			
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<213>	Homo sapiens																		
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<221>	SITE																		
<222>	(307)																		
<223>	Xaa equals any of the naturally occurring L-amino acids																		
<400>	1233																		
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1				5					10					15					
Val	His	Thr	Thr	Leu	Ser	Lys	Ser	Asp	Ala	Lys	Lys	Ala	Ala	Ser	Lys				
			20					25					30						
Thr	Leu	Leu	Glu	Lys	Ser	Gln	Phe	Ser	Asp	Lys	Pro	Val	Gln	Asp	Arg				
		35					40					45							
Gly	Leu	Val	Val	Thr	Asp	Leu	Lys	Ala	Glu	Ser	Val	Val	Leu	Glu	His				
	50					55					60								
Arg	Ser	Tyr	Cys	Ser	Ala	Lys	Ala	Arg	Asp	Arg	His	Phe	Ala	Gly	Asp				
65					70					75					80				
Val	Leu	Gly	Tyr	Val	Thr	Pro	Trp	Asn	Ser	His	Gly	Tyr	Asp	Val	Thr				
				85					90					95					
Lys	Val	Phe	Gly	Ser	Lys	Phe	Thr	Gln	Ile	Ser	Pro	Val	Trp	Leu	Gln				
			100					105					110						

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**<220>**

<222> (303)

<220>

<221> SITE

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**<220>**

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&lt;221&gt; SITE

<222> (321)

<400> 1234

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
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<210> 1235
<211> 307
<212> PRT
<213> Homo sapiens

<400> 1235
Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
  1             5             10             15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
      20             25             30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
    35             40             45

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Gly	Leu	Val	Val	Thr	Asp	Leu	Lys	Ala	Glu	Ser	Val	Val	Leu	Glu	His
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Arg	Ser	Tyr	Cys	Ser	Ala	Lys	Ala	Arg	Asp	Arg	His	Phe	Ala	Gly	Asp
65						70					75				
Val	Leu	Gly	Tyr	Val	Thr	Pro	Trp	Asn	Ser	His	Gly	Tyr	Asp	Val	Thr
						85					90				
Lys	Val	Phe	Gly	Ser	Lys	Phe	Thr	Gln	Ile	Ser	Pro	Val	Trp	Leu	Gln
						100					105				
Leu	Lys	Arg	Arg	Gly	Arg	Glu	Met	Phe	Glu	Val	Thr	Gly	Leu	His	Asp
						115					120				
Val	Asp	Gln	Gly	Trp	Met	Arg	Ala	Val	Arg	Lys	His	Ala	Lys	Gly	Leu
						130					135				
His	Ile	Val	Pro	Arg	Leu	Leu	Phe	Glu	Asp	Trp	Thr	Tyr	Asp	Asp	Phe
						145					150				
Arg	Asn	Val	Leu	Asp	Ser	Glu	Asp	Glu	Ile	Glu	Glu	Leu	Ser	Lys	Thr
						165					170				
Val	Val	Gln	Val	Ala	Lys	Asn	Gln	His	Phe	Asp	Gly	Phe	Val	Val	Glu
						180					185				
Val	Trp	Asn	Gln	Leu	Leu	Ser	Gln	Lys	Arg	Val	Gly	Leu	Ile	His	Met
						195					200				
Leu	Thr	His	Leu	Ala	Glu	Ala	Leu	His	Gln	Ala	Arg	Leu	Leu	Ala	Leu
						210					215				
Leu	Val	Ile	Pro	Pro	Ala	Ile	Thr	Pro	Gly	Thr	Asp	Gln	Leu	Gly	Met
						225					230				
Phe	Thr	His	Lys	Glu	Phe	Glu	Gln	Leu	Ala	Pro	Val	Leu	Asp	Gly	Phe
						245					250				
Ser	Leu	Met	Thr	Tyr	Asp	Tyr	Ser	Thr	Ala	His	Gln	Pro	Gly	Pro	Asn
						260					265				
Ala	Pro	Leu	Ser	Trp	Val	Arg	Ala	Cys	Val	Gln	Val	Leu	Asp	Pro	Lys
						275					280				
Ser	Lys	Trp	Arg	Ser	Lys	Ile	Leu	Leu	Gly	Leu	Asn	Phe	Tyr	Gly	Thr
						290					295				
Ser	Arg	His													
305															

2400> 1238  
Gly Ile Val Ala Phe Ile Val Phe Leu Leu Leu Ile Met Leu Ile Phe  
1 5 10 15

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<210> 1237
<211> 367
<212> PRT
<213> Homo sapiens
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Met Gly Ala Pro Ala Ala Ser Leu Leu Leu Leu Leu Phe Ala  
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Gln Glu Gln Asp Leu Glu Leu Gly Thr Leu Ala Pro Leu Asp Glu Ala  
35 40 45

Ile Ser Ser Thr Trp Ser Ser Pro Asp Met Leu Ala Ser Gln Asp Ser  
50 55 60

Gln Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr Val Val  
65 70 75 80

Leu Lys Cys Gln Val Lys Asp His Glu Asp Ser Ser Leu Gln Trp Ser  
85 90 95

Asn Pro Ala Gln Gln Thr Leu Tyr Phe Gly Glu Lys Arg Ala Leu Arg  
100 105 110

Asp Asn Arg Ile Gln Leu Val Thr Ser Thr Pro His Glu Leu Ser Ile  
115 120 125

Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu Tyr Thr Cys Ser  
130 135 140

Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu Val Thr Val Leu  
145 150 155 160

Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys Ser Ser Leu Arg  
165 170 175

Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser Gly Ser Lys Pro  
180 185 190

Ala Ala Arg Leu Thr Trp Arg Lys Gly Asp Gln Glu Leu His Gly Glu  
195 200 205

Pro Thr Arg Ile Gln Glu Asp Pro Asn Gly Lys Thr Phe Thr Val Ser  
210 215 220

Ser Ser Val Thr Phe Gln Val Thr Arg Glu Asp Asp Gly Ala Ser Ile  
225 230 235 240

Val Cys Ser Val Asn His Glu Ser Leu Lys Gly Ala Asp Arg Ser Thr  
245 250 255

Ser Gln Arg Ile Glu Val Leu Tyr Thr Pro Thr Ala Met Ile Arg Pro  
260 265 270

Asp Pro Pro His Pro Arg Glu Gly Gln Lys Leu Leu Leu His Cys Glu  
275 280 285

Gly Arg Gly Asn Pro Val Pro Gln Gln Tyr Leu Trp Glu Lys Glu Gly  
290 295 300

Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser Ala Leu Ile Phe Pro  
305 310 315 320

Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly Cys Thr Ala Thr Ser  
325 330 335

Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu Asn Val Asn Asp Pro  
340 345 350

Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His Ala Ile Ile Gly  
355 360 365

<210> 1238

<211> 344

<212> PRT

<213> Homo sapiens

<400> 1238

Asn Leu Ser Gln Asp Gly Tyr Trp Gln Glu Gln Asp Leu Glu Leu Gly  
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Thr Leu Ala Pro Leu Asp Glu Ala Ile Ser Ser Thr Val Trp Ser Ser  
20 25 30

Pro Asp Met Leu Ala Ser Gln Asp Ser Gln Pro Trp Thr Ser Asp Glu  
35 40 45

Thr Val Val Ala Gly Gly Thr Val Val Leu Lys Cys Gln Val Lys Asp  
50 55 60

His Glu Asp Ser Ser Leu Gln Trp Ser Asn Pro Ala Gln Gln Thr Leu  
65 70 75 80

Tyr Phe Gly Glu Lys Arg Ala Leu Arg Asp Asn Arg Ile Gln Leu Val  
85 90 95

Thr Ser Thr Pro His Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu  
100 105 110

Ala Asp Glu Gly Glu Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg  
115 120 125

Thr Ala Lys Ser Leu Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile  
130 135 140

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<212> PRT



<213> Homo sapiens

<400> 1240

Asp Gly Tyr Trp Gln Glu Gln Asp Leu Glu Leu Gly Thr Leu Ala Pro  
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Leu Asp Glu Ala Ile Ser Ser Thr Trp Ser Ser Pro Asp Met Leu Ala  
20 25 30

Ser Gln

<210> 1241

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1241

Asn Leu Ser Gln Asp Gly Tyr Trp Gln Glu Gln Asp Leu Glu Leu Gly  
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Thr Leu Ala Pro Leu Asp Glu Ala Ile Ser Ser Thr Trp Ser Ser Pro  
20 25 30

Asp Met Leu Ala Ser Gln Asp Ser Gln Pro  
35 40

<210> 1242

<211> 8

<212> PRT

<213> Homo sapiens

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Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr Val Val Leu  
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Asp Phe Asn Leu Leu Gln Val Ser Glu Pro Ser Glu Pro Cys Val Arg  
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Tyr Leu Pro Arg Leu Tyr Leu Asp Ile His Asn Tyr Cys Val Leu Asp  
35 40 45

Lys Leu Arg Asp Phe Val Ala Ser Pro Pro Cys Trp Lys Val Ala Gln  
50 55 60

Val Asp Ser Leu Lys Asp Lys Ala Arg Lys Leu Tyr Thr Ile Met Asn  
65 70 75 80

Ser Phe Cys Arg Arg Asp Leu Val Phe Leu Leu Asp Asp Cys Asn Ala  
85 90 95

Leu Glu Tyr Pro Ile Pro Val Thr Thr Val Leu Pro Asp Arg Gln Arg  
100 105 110